

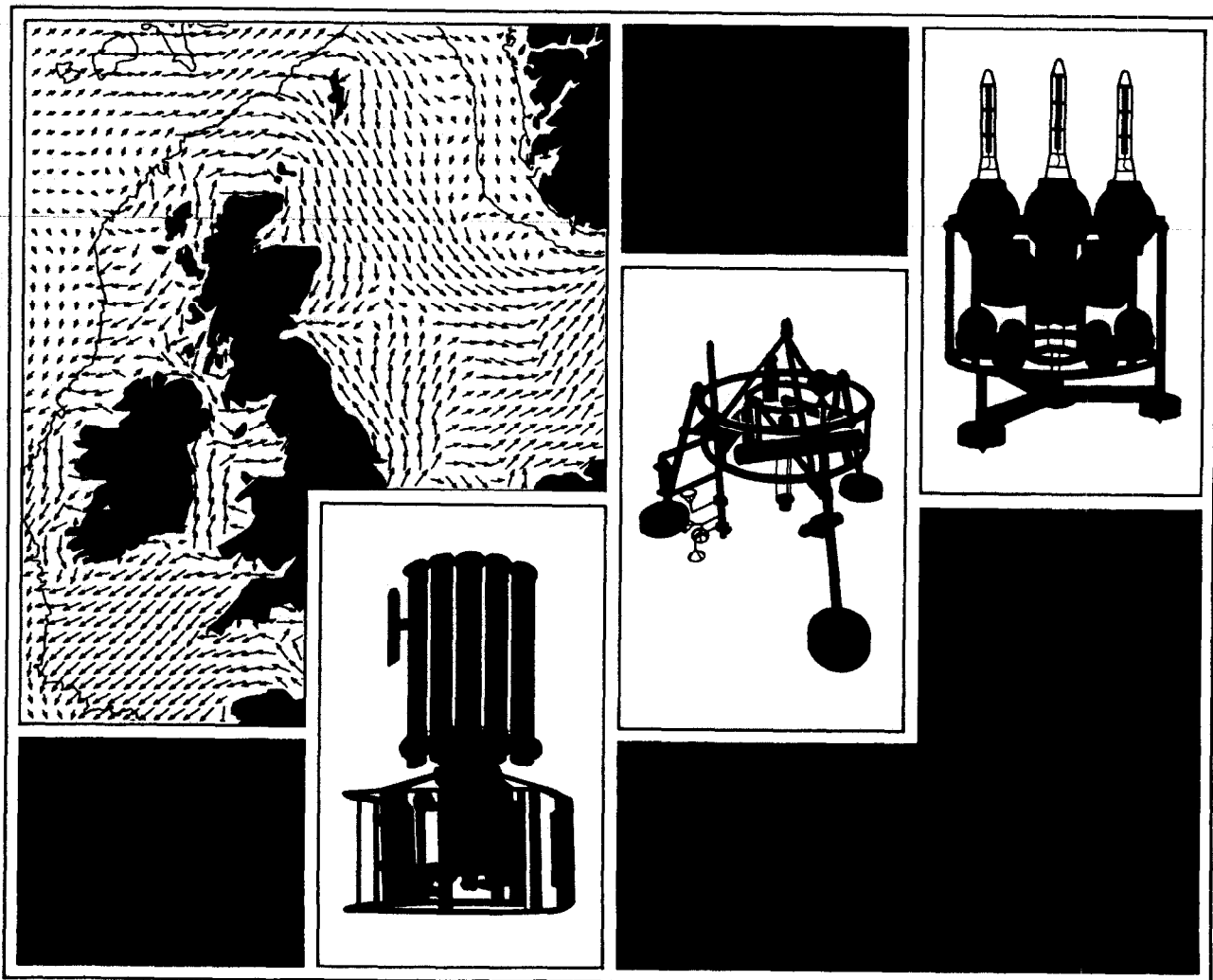


**Proudman  
Oceanographic  
Laboratory**

# Current Profile, Water Level and Temperature records April 1993 - May 1994, Cumbrian Coast.

RJ Player

Report No. 38 1995



# **PROUDMAN OCEANOGRAPHIC LABORATORY**

**Bidston Observatory,  
Birkenhead, Merseyside, L43 7RA, U.K.**

**Telephone: 051 653 8633  
Telex 628591 OCEANB G  
Telefax 051 653 6269**

**Director: Dr. B.S. McCartney**

**Natural Environment Research Council**

**PROUDMAN OCEANOGRAPHIC LABORATORY**

**REPORT No. 38**

**Current profile, water level and temperature records**

**April 1993 - May 1994**

**Cumbrian Coast**

**R.J. Player**

**1995**

# DOCUMENT DATA SHEET

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<i>ABSTRACT</i>		
<p>This report describes results from one site at 54° 7.5'N, 3° 27.3'W off the Cumbrian Coast, where Aanderaa current meters and Acoustic Doppler Current Profilers were deployed for 14 months.</p> <p>Data plots are shown as well as statistical output from the calibrated current meter records.</p>		
<p>This information is given in good faith and is believed to be correct, but no responsibility can be accepted by the Natural Environment Research Council for any consequential loss or damage arising from any use that is made of it.</p>		
<i>ISSUING ORGANISATION</i>		<i>TELEPHONE</i>
Proudman Oceanographic Laboratory Bidston Observatory Birkenhead, Merseyside L43 7RA UK		051 653 8633
		<i>TELEX</i>
		628591 OCEAN BG
Director: Dr B S McCartney		<i>TELEFAX</i>
		051 653 6269
<i>KEYWORDS</i>		<i>CONTRACT</i>
CURRENT PROFILES		
CURRENT METER OBSERVATIONS	NWEURIRI	<i>PROJECT</i> MSH-21-2
ACOUSTIC DOPPLER CURRENT PROFILER (ADCP)		
IRISH SEA	NORTH CHANNEL	<i>PRICE</i> £58
TEMPERATURE	CURRENT METER DATA	

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The Library, Proudman Oceanographic Laboratory.



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**DATA RESULTS**

<b>Meter No.</b>	<b>Type</b>	<b>Deployment span</b>	<b>Page No.</b>
0568	Aanderaa Mk4	21/4 - 25/5/93	29
6443	Aanderaa Mk4	21/4 - 25/5/93	36
0001	Doppler	21/4 - 24/5/93	45
4387	Aanderaa Mk4	26/5 - 22/6/93	59
0010	Doppler	24/5 - 22/6/93	68
0568	Aanderaa Mk4	22/6 - 6/8/93	82
6443	Aanderaa Mk4	22/6 - 6/8/93	90
4387	Aanderaa Mk4	6/8 - 2/9/93	101
7570	Aanderaa Mk4	6/8 - 2/9/93	108
0010	Doppler	6/8 - 1/9/93	117
0568	Aanderaa Mk4	2/9 - 25/9/93	131
6443	Aanderaa Mk4	2/9 - 25/9/93	139
0001	Doppler	1/9 - 25/9/93	142
0568	Aanderaa Mk4	25/9 - 27/10/93	156
6443	Aanderaa Mk4	25/9 - 27/10/93	163
0010	Doppler	25/9 - 27/10/93	172
4387	Aanderaa Mk4	27/10 - 30/11/93	186
6443	Aanderaa Mk4	27/10 - 30/11/93	193
0001	Doppler	27/10/93 - 7/2/94	202
4387	Aanderaa Mk4	1/12/93 - 7/2/94	219
6443	Aanderaa Mk4	1/12/93 - 7/2/94	222
7570	Aanderaa Mk7	7/2 - 3/5/94	234
0010	Doppler	7/2 - 3/5/94	248



## 1 INTRODUCTION

A series of measurements were carried out in the northern Irish Sea, as part of a study into sediment resuspension in collaboration with University College of North Wales (UCNW).

Current meters and sea bed mounted Acoustic Doppler Current Profilers (ADCPs) were deployed to measure the current profile from the sea surface to the sea bed in the area of  $54^{\circ} 7.5'N$ ,  $3^{\circ} 27.3'W$  off the Cumbrian Coast. Sea temperature, conductivity and pressure were also measured for part of the period. UCNW also deployed transmissometers, but no information regarding these is presented here.

The report describes the records from 9 consecutive moorings deployed during the period April 1993 - May 1994, and from which data were extracted, see Table 2.1. Of the eight ADCP deployments seven produced data, four for their complete deployment length. Of the eighteen current meter deployments, fifteen recorded good data, ten for their full period. Section 2 contains a summary of the results of each deployment, and Figure 7 has a diagrammatic summary of deployments and data obtained.

Severe weather and intermittent availability of ship time precluded the original intention of monthly deployments, resulting in longer (unplanned) deployments. Thus some of the meters stopped recording data before their recovery, but worked well within their expected capabilities.

The calibrated data are presented in the form of time series and scatter plots, histograms, and progressive vector diagrams and statistics in order to indicate the content and quality of the data.

The UCNW ship Prince Madog was generally used to service the rigs, together with the NERC ship RRS Challenger on cruises 106 and 107. See POL Cruise Report No. 18.

Previous data collected during cruises Challenger 78 and 88a in 1991 and 1992 respectively is available for comparison, in POL Internal Report No. 29.

## 2 SUMMARY OF DEPLOYMENTS

The following table gives an overview of the data processed for the two cruises.

In the **Meter No.** column, prefix DP indicates an ADCP all of which operated at 1Mhz. AA and AS indicate an Aanderaa RCM 4 and 7 respectively.

**Deployment span** is repeated from the 'Contents - Data Results' table for ease of use, and indicates the dates when the rig was settled on the sea bed and recording data.

The **Meter Ht.** column indicates the meter height above sea bed.

The **Length** column indicates the length of good data for currents only.

The **Currents** column indicates whether data covers the complete deployment span, whether the data is short of this, or failed altogether.

**Temp**, **Cond** and **Press** columns indicate where individual meters contained sensors for recording temperature, conductivity and pressure. Data return for these is indicated by either a Y (all data for deployment period), N (no data recorded) or S (where data is short of full deployment period), in the relevant column.

The **Depth** column indicates the approximate depth of water recorded in the ship's log during deployment/recovery.

## 2.1 Summary table of instruments and data details

Meter No.	Deployment span	Meter Ht(m)	Length (days)	Currents	Temp	Cond	Press	Water Depth
AA0568	21/4 - 25/5/93	10.5	33.6	Good data	-	-	-	20.0
AA6443	21/4 - 25/5/93	3.5	33.6	Good data	Y	N	-	20.0
DP0001	21/4 - 24/5/93	0.5	33.4	Good data	-	-	-	24.0
AA7570	26/5 - 22/6/93	10.5	0.0	No data	N	N	N	24.0
AA4387	26/5 - 22/6/93	3.5	27.1	Good data	Y	-	-	24.0
DP0010	24/5 - 22/6/93	0.5	28.4	Good data	-	-	-	18.0
AA0568	22/6 - 6/8/93	10.5	30.7	Short	Y	Y	-	25.0
AA6443	22/6 - 6/8/93	3.5	44.8	Good data	Y	N	-	25.0
DP0001	22/6 - 6/8/93	0.5	0.0	No data	-	-	-	19.0
AA4387	6/8 - 2/9/93	10.5	26.8	Good data	Y	-	-	18.0
AA7570	6/8 - 2/9/93	3.5	6.3	Short	S	S	S	18.0
DP0010	6/8 - 1/9/93	0.5	11.2	Short	-	-	-	21.0
AA0568	2/9 - 25/9/93	10.5	23.0	Good data	Y	Y	-	18.0
AA6443	2/9 - 25/9/93	3.5	23.0	No data	Y	N	-	18.0
DP0001	1/9 - 25/9/93	0.5	23.5	Good data	-	-	-	18.0
AA0568	25/9 - 27/10/93	10.5	32.0	Good data	Y	Y	-	22.0
AA6443	25/9 - 27/10/93	3.5	32.0	Good data	Y	N	-	22.0
DP0010	25/9 - 27/10/93	0.5	32.0	Good data	-	-	-	22.0
AA4387	27/10 - 30/11/93	10.5	24.8	Short	Y	-	-	20.0
AA6443	27/10 - 30/11/93	3.5	34.1	Good data	Y	N	-	20.0
DP0001	27/10/93 - 7/2/94	0.5	39.2	Short	-	-	-	19.0
AA4387	1/12/93 - 7/2/94	10.5	70.2	No data	Y	-	-	18.0
AA6443	1/12/93 - 7/2/94	3.5	48.2	Short	S	S	-	18.0
AS7570	7/2 - 3/5/94	10.5	75.2	Short	S	S	S	20.0
AA0568	7/2/94	3.5	0.0	No data	N	N	-	20.0
DP0010	7/2 - 3/5/94	0.5	40.4	Short	-	-	-	20.0

### **3 RIG SYSTEM DESCRIPTION**

The ADCP's were mounted on low profile frames positioned on the sea bed, using 'L' shaped moorings marked by a surface buoy toroid (see figures 2 and 3). On recovery an acoustic release was triggered by sending signals from the ship, so that the frame separated from the ballast weight. The frame under its own buoyancy then rose to the surface ready for picking up. A nylon spooler line connecting the frame to the ballast then enabled the ballast to be retrieved.

The Aanderaa current meters were deployed on vertical lines using a 'U' shaped mooring marked by a surface buoy toroid, (see Figures 4 and 5) and these were recovered by picking up the attached buoys.



#### 4 ACOUSTIC DOPPLER CURRENT PROFILER (POL 1 MHz)

The ADCP measures the vertical profile of currents in bins from the sea bed to the surface. The ADCP sends out short acoustic pulses, typically lasting a few thousandths of a second, at a fixed frequency. The acoustic pulses, transmitted in two narrow beams at right angles to each other and  $30^\circ$  to the vertical, are reflected back to the ADCP by small particles, such as plankton or sediment, which move with the water. The frequency of the reflected signal is changed by a small amount proportional to the current speed, the Doppler shift. By measuring the frequency change along the two beams the speed and direction of the currents are determined. The currents at different heights through the water column are obtained by chopping the return signal into segments by time.

The 1MHz ADCP has a range of 30 m and can measure up to 24 bins. However, the technique has some limitations which reduce the amount of good data return. The bins nearest to the transducers may give erroneous data due to the time taken for transients to decay, whereas the far end bins may be affected by interference from side lobes reflected from the sea surface. Hence, the good data return bins are usually between 15% of depth from the surface and 10% of depth from the bottom. Occasionally the bin heights are greater than the nominal water depth given, and the data should be used with care.

##### 4.1 Specification

<b>Speed</b>	Range	0 to 350 cm s <sup>-1</sup>
	Accuracy	$\pm 4$ cm s <sup>-1</sup>
<b>Direction</b>	0 - 360 degrees	
<b>Tilt</b>	Two tilts measured at $90^\circ$ to each other	

##### 4.2 Set up details

<b>Set up</b>	Sample period	10 minutes
	Number of bins (cells)	12

Number of pings in ensemble	depends on depth
First bin height/Bin separation	3.9 m / 1.4 m
Bin heights (range) (1-12)	3.9m / 5.3m / 6.7m / 8.1m / 9.5m /10.9m /12.3m /13.7m/ 15.1m /16.5m /17.9m /19.3

## 5 AANDERAA RCM CURRENT METERS

These record current speed and direction at the deployed depth, and can also be fitted with temperature, conductivity and pressure recording devices. Temperature is measured by a thermistor fitted into a stud extending into the water. Conductivity is measured by an electrodeless induction conductivity cell and pressure is measured by a sensor consisting of a potentiometer driven by a Bourdon tube. Both types of current meter use similar sensors, but differ in other respects. The RCM 4 meter usually uses a savonius rotor sampling 'snap' directions and records onto 6mm wide magnetic tape, but for most of these deployments the RCM 4 meters were fitted with a paddle rotor. The RCM 7 uses a paddle rotor, sampling direction over 12 seconds, and recording onto solid state memory. Both RCM's count the number of rotor rotations in either a resetting or incrementing mode.

### 5.1 Aanderaa sensor specifications

<b>Temperature</b>	Range	-2.46 to 21.4°C
	Accuracy	±0.05°C
<b>Conductivity</b>	Range	21 to 51 mmho cm <sup>-1</sup>
	Accuracy	±0.025 mmho cm <sup>-1</sup>
<b>Pressure</b>	Range	0 to 100 PSI or 0 to 200 PSI
	Accuracy	±1%

## **6 DATA PROCESSING STEPS**

### **6.1 Raw data transfer**

The data from the ADCPs and current meters were brought back to POL on standard magnetic cassette and read onto 3½ inch disc formats. The data were then read directly into a Silicon Graphics UNIX workstation using SoftPC.

### **6.2 Processing stage**

Two software systems, CALT and CALP, have been developed at POL for quick and efficient processing and display of times series data. The CALT system calibrates and checks for errors and the CALP system produces standard graphical output statistical analyses. Before calibrating the data, all the information required for processing were input into an ORACLE data base. All the information could then be accessed easily with FORTRAN programs.

Processing was then initiated by CALTU, which calls a suite of FORTRAN programs for error checking and producing calibrated data. Any errors found from the initial run were edited out of the raw data and CALTU run again. After successful completion of the CALTU stage another suite of FORTRAN programs initiated by CALPT/DOPT were used to produce the output contained in this report. The types of plot obtained and details of the statistics are explained in more detail in the following sections.

## 7 DETAILS OF STATISTICS

### 7.1 Simple statistics

A simple statistical analysis was carried out on each calibrated current meter data set. The following statistics were calculated :-

- (1) Mean, variance and standard deviation of the East and North components of velocity.
- (2) The mean vector speed and direction were calculated from the above statistics.
- (3) The maximum ten and minimum ten Northings and Eastings and the top speeds.

### 7.2 Variance ellipse statistics

Statistical analysis was also carried out on the ellipse which can be graphically represented by a scatter plot. The following statistics were calculated :-

- (1) The maximum and minimum variances and their ratio (minimum/maximum).  
If the ratio is near to one the currents have no preferred direction, whilst if it is near to zero the flow is rectilinear.
- (2) The direction associated with the maximum and minimum variance, in the range of  $-180^\circ$  to  $+180^\circ$ .
- (3) The total variance which equals the sum of the North and East component variances or the sum of the maximum and minimum variances.
- (4) The average direction for each half of the ellipse, related to the directions of maximum variance. If these directions differ by  $180^\circ$  the scatter plot is symmetrical.

### 7.3 Filtering

The ten minute calibrated data were also low-pass filtered and sub-sampled every 6

hours. Figure 6 shows the filter's response function. Three days of data are lost at the beginning and the end of the record when this filter is applied. The statistical analysis was then repeated on the filtered data set.

## 8 FORMAT OF DATA OUTPUT

All speeds and velocities are in  $\text{m s}^{-1}$ , directions in degrees true and time in GMT. The results are in chronological order. Each mooring result is made up of mooring information, meter information, and graphical output and statistics.

### 8.1 Mooring information

Position latitude	: Latitude of deployment
Position longitude	: Longitude of deployment
Water depth(m)	: Depth measured from ship's echo sounder
Deployed on cruise	: Cruise identifier or ship name
Recovered on cruise	: Cruise identifier or ship name
Site name identification	: Additional site identifier
Magnetic deviation	: Taken from charts
Rig deployed on	: Time frame on the bottom
Rig recovered on	: Time release fired on rig
Period of deployment	: Total time of deployment
Comments	: Details regarding mooring

### 8.2 Meter information

Rig number	: Unique POL mooring/rig reference
Meter number	: Four digit current meter number
Frame angle correction	: Correction to ADCP frame angle
Sample interval	: Sampling interval in seconds
Meter height from bottom	: Height in metres
Position of meter on rig	: A for attached to frame
Meter type	: DP for ADCP : AA and AS for RCM 4 and 7 Aanderaa current meters
Meter started	: Date and time
Meter stopped	: Date and time
Time of last valid scan	: Used when good data ends before switch off
Period in days on record	: Total time meter switched on
Total number of scans	: Used to check timing
Timing error	: Error in seconds
Comments	: Details regarding meter

### 8.3 Graphical output

- (1) North and East components of velocity against time. The semi-diurnal nature of the tides can be seen as well as the Spring/Neap cycle in both components of velocity.
- (2) Scatter diagrams of North components of velocity against the East components. Shows the direction and magnitudes of the currents. This plot is often a good check on the quality of the data, in particular regarding direction and possible problems at low speeds.
- (3) Multiple stick plots of filtered data enabling the change of residual flow with time and depth to be seen. Each line represents the 6 hourly filtered value, the length of the line representing the magnitude of the value, and the line leaving the zero y-scale in the direction of the current flow.
- (4) Eulerian progressive vector plot. The nature of the residual flow is emphasised, although the semi-diurnal tides are also apparent.

### 8.4 Single ADCP bin meter output

One bin only with statistics are shown for each ADCP, representing the depth-averaged bin.

- (1) North and East components of velocity against time.
- (2) Eulerian progressive vector plot. The nature of the residual flow is emphasised, although the semi-diurnal tides are also apparent.

### **8.5 Statistical output**

- (1) Simple statistics of the calibrated data and filtered data. Single doppler bins and Aanderaas.
- (2) Statistics for each ADCP bin, giving vector mean speed and direction, maximum and minimum variance, and directions for maximum and minimum variance.

### **8.6 Temperature, Salinity and Pressure output**

- (1) Temperature (°C), salinity and pressure (bars) against time. The semi-diurnal nature of the tides and Spring/Neap cycle can be seen in the pressure record.

## **ACKNOWLEDGEMENTS**

The author would like to thank David Flatt, Alan Harrison and Graham Ballard for setting up, deploying and recovering the instruments.

## **REFERENCES**

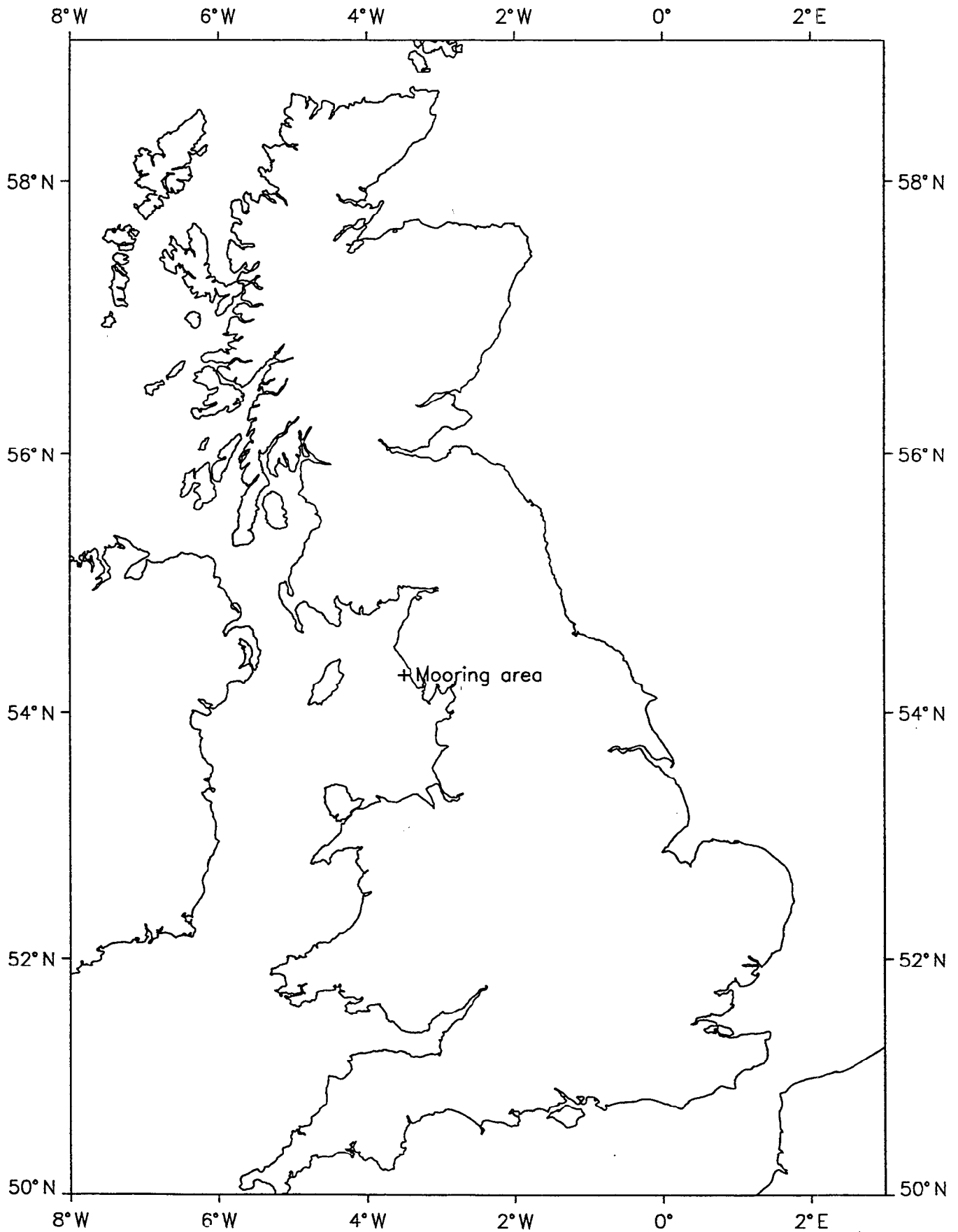
### **PLAYER, R.J. 1993**

Current Profile, Water Level and Temperature Records. Cruises Challenger 78 and 88a, Cumbria Coast. April - May 1991 and January - February 1992.  
Proudman Oceanographic Laboratory, Report No. 29, 190pp.

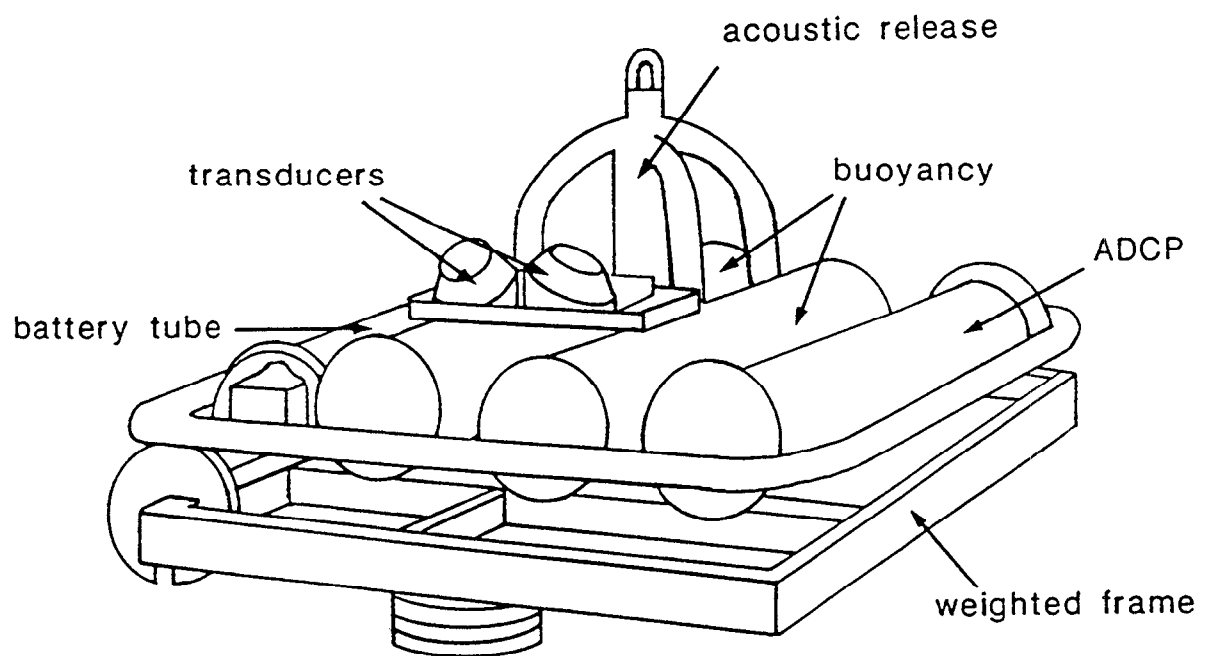
### **HOWARTH, M.J., HARRISON, A.J. and KNIGHT, P.J. 1994**

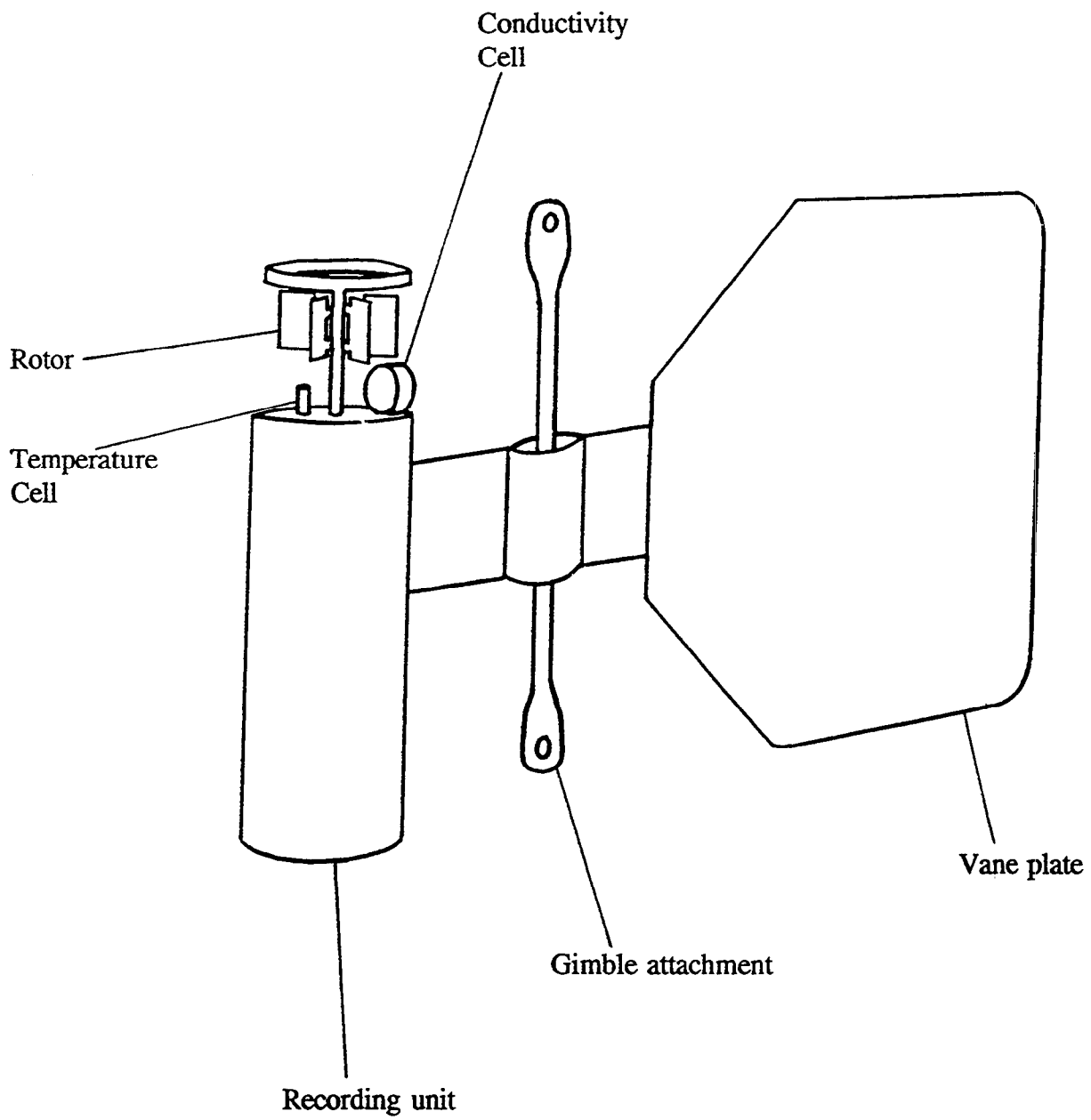
Challenger Cruises 106 and 107, North Channel, 1993.  
Proudman Oceanographic Laboratory, Cruise Report, No. 18, 50pp.



**FIGURE 1** Map showing location of mooring area

**FIGURE 2** Diagram of frame incorporating the ADCP



**FIGURE 3** Diagram of Aanderaa current meter

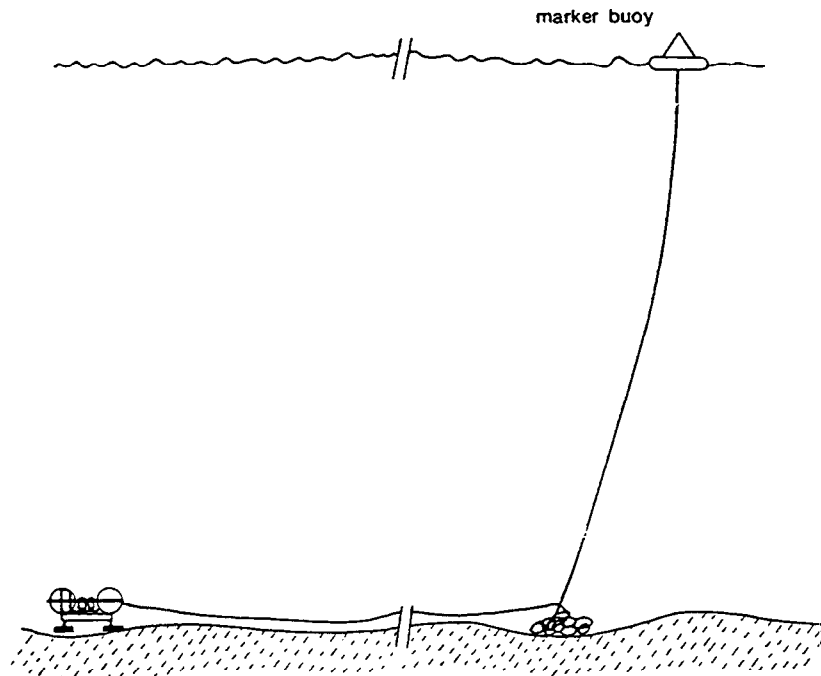
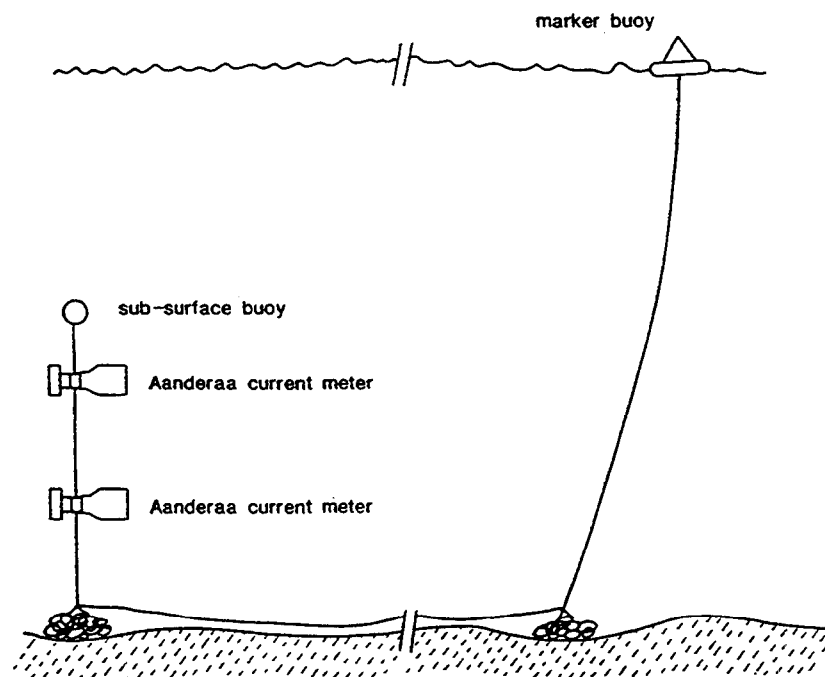
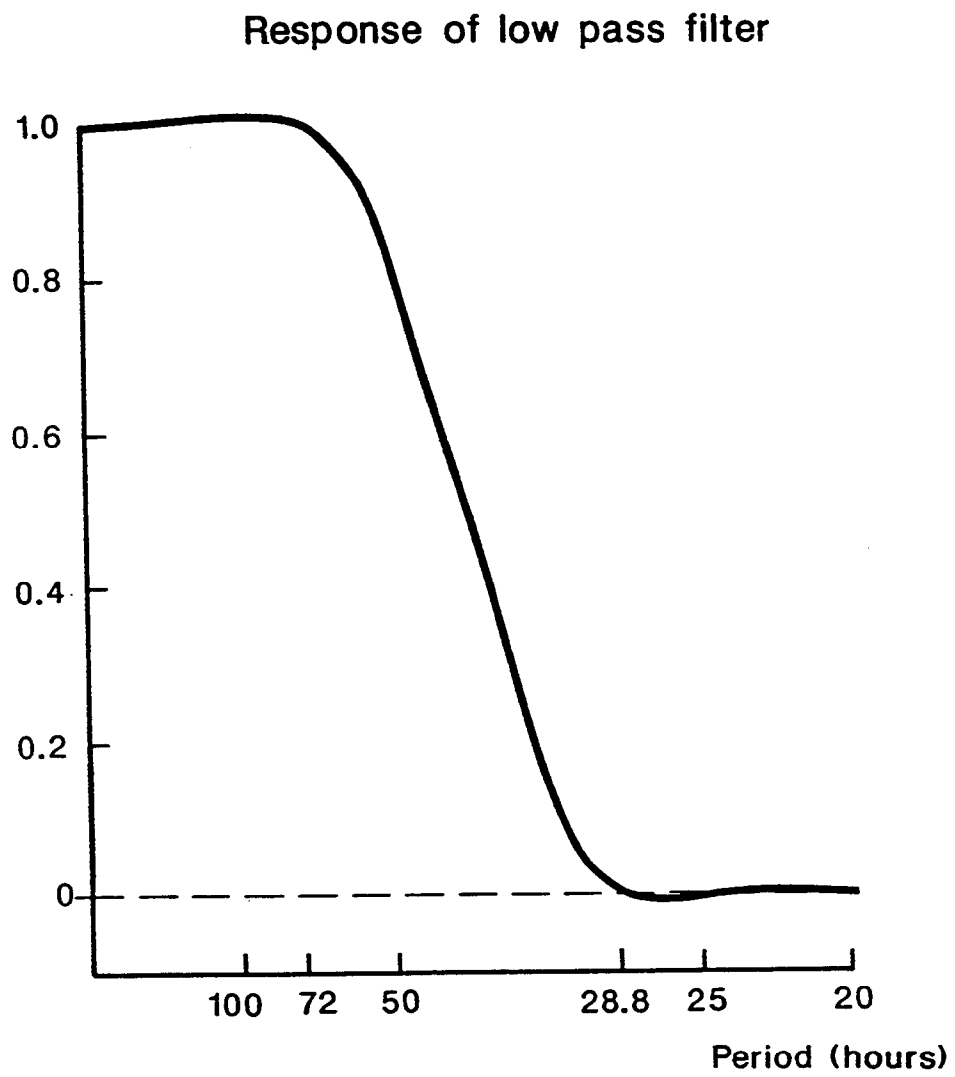
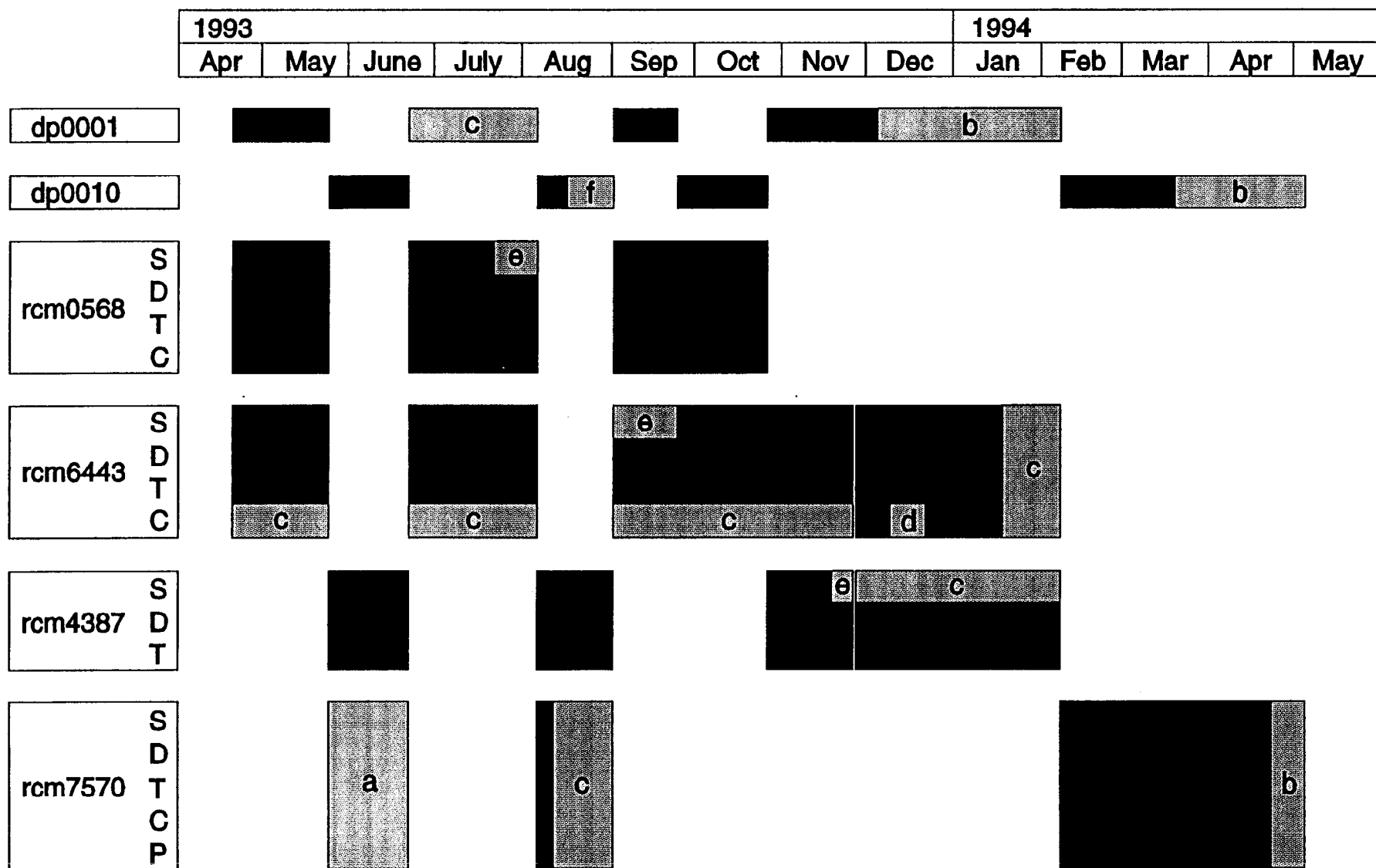
**FIGURE 4** Diagram of 'L' shaped ADCP mooring**FIGURE 5** Diagram of 'U' shaped current meter mooring

FIGURE 6 Diagram of low pass filter



**FIGURE 7 Diagrammatic Summary of deployments**Key to missing data on diagram

- a failed to record
- b memory ran out due to long deployment
- c data recorded but was noisy/unusable
- d data jammed on one value
- e rotor jammed, therefore no speed recorded
- f trawled



Good data      C = conductivity      D = direction      S = speed  
 Bad data      T = temperature      P = pressure

FIGURE 7 Diagrammatic Summary of deployments

**Rig information details for 00561**

Position Latitude	:	54 07.46N
Position Longitude	:	03 23.35W
Water depth	:	20.0 m
Deployed on cruise	:	P.MADOG
Recovered on cruise	:	P.MADOG
Site name identification	:	Y
Magnetic deviation	:	6.5 degrees west
Rig deployed on	:	21-APR-93 15:20:00
Rig recovered on	:	25-MAY-93 06:40:00
Period of deployment	:	33.6 days
Comments	:	Excessive marine growth on rig. Current meter rotors still turning, but restricted.



**Meter information details for 0568**

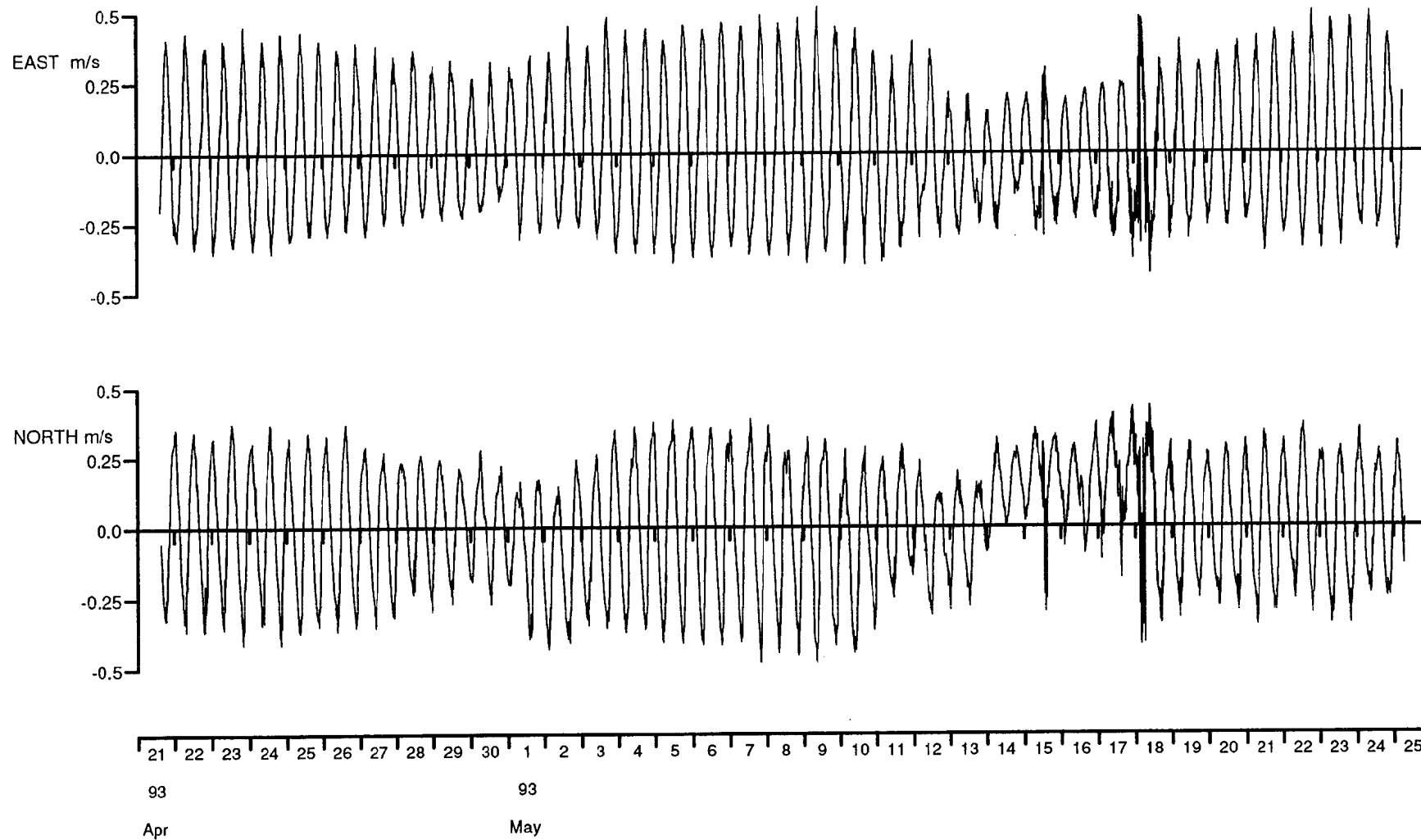
Rig No	: 00561
Meter No	: 0568
Recording interval	: 600.0 seconds
Meter height from bottom	: 10.5 m
Position of meter on rig	: T
Meter type	: AA
Meter started	: 21-APR-93 12:50:00
Meter stopped	: 26-MAY-93 14:40:00
Period switched on	: 35.1 days
Period of good data	: 33.6 days
Total number of scans	: 4844
Timing error	: None
Comments	: Savonious paddle used

# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0568 Rig no. 00561 Depth of water(m) 20.0

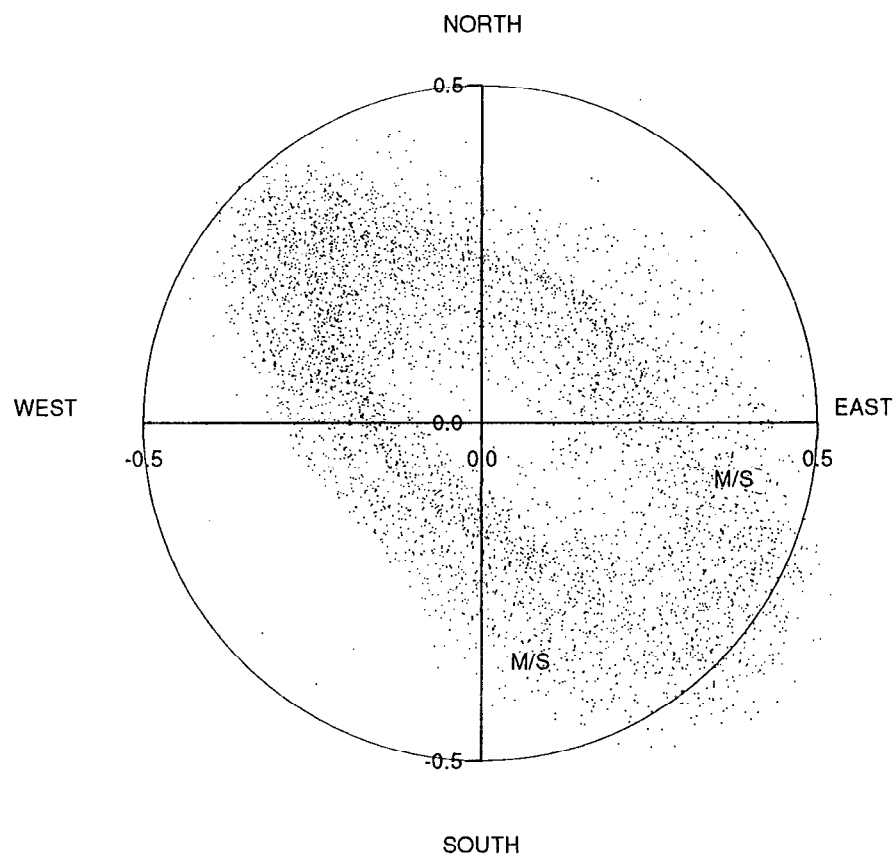
Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00

Position 54 07.46N 03 23.35W Meter Height(m) 10.5



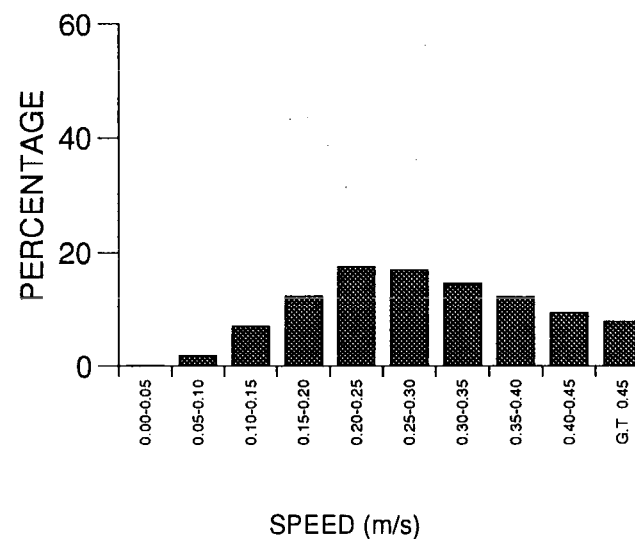
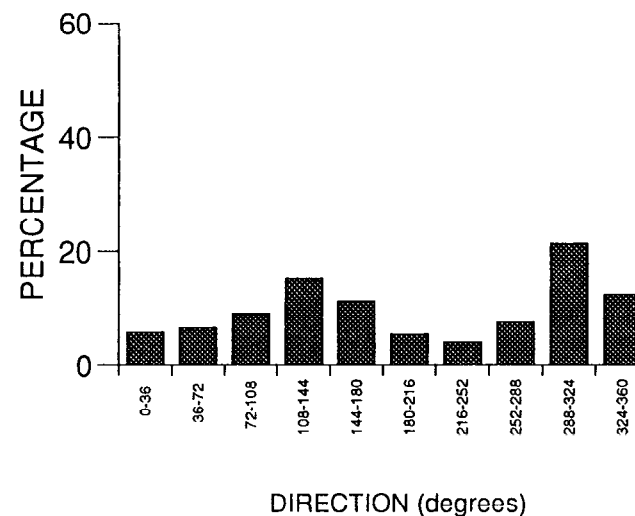
# SCATTER PLOT

Meter no. 0568 Rig no. 00561 Depth of water(m) 20.0  
Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00  
Position 54 07.46N 03 23.35W Meter Height(m) 10.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0568 Rig no. 00561 Depth of water(m) 20.0  
Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00  
Position 54 07.46N 03 23.35W Meter Height(m) 10.5

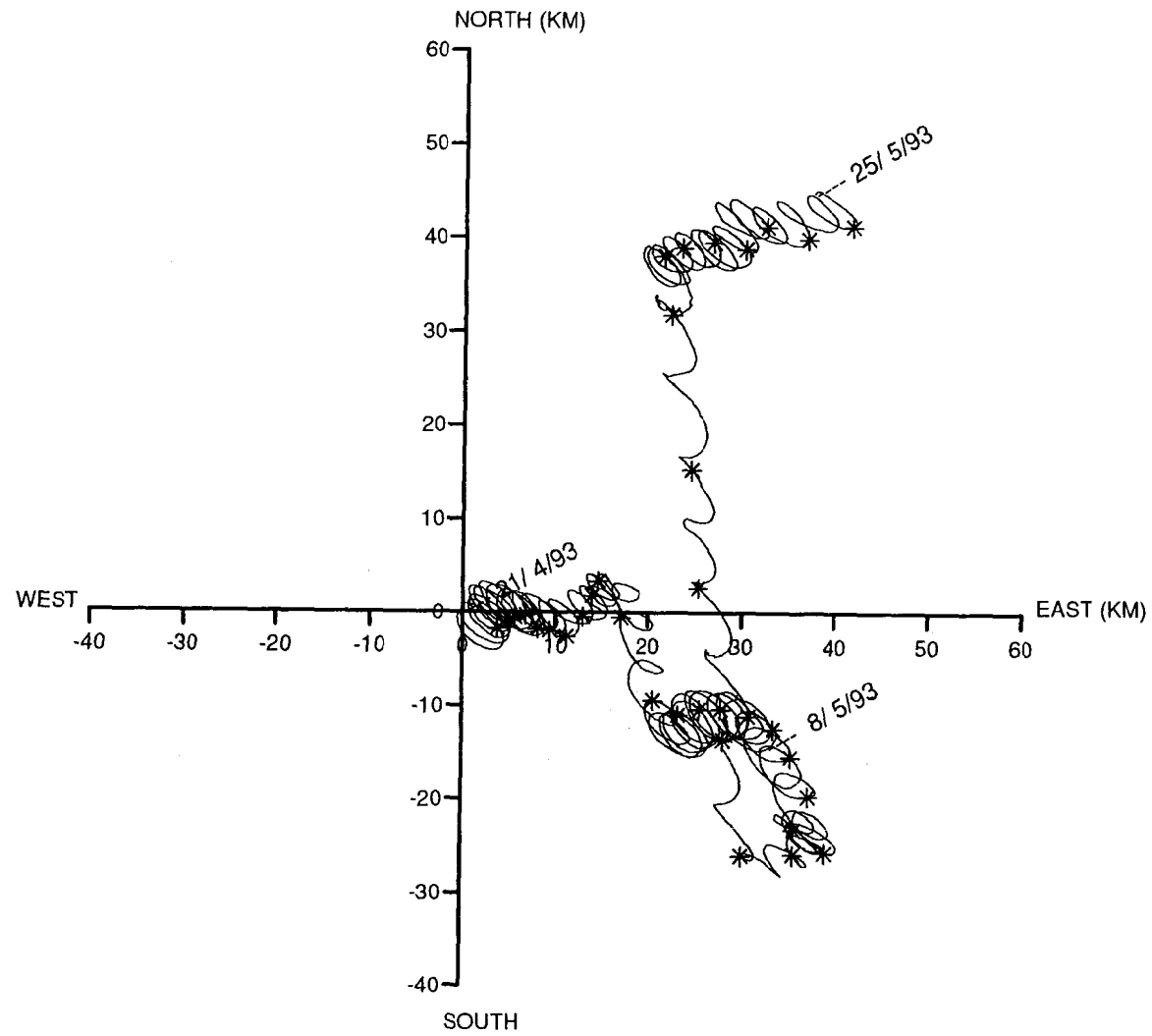


# VECTOR PLOT

Meter no. 0568 Rig no. 00561 Depth of water(m) 20.0

Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00

Position 54 07.46N 03 23.35W Meter Height(m) 10.5

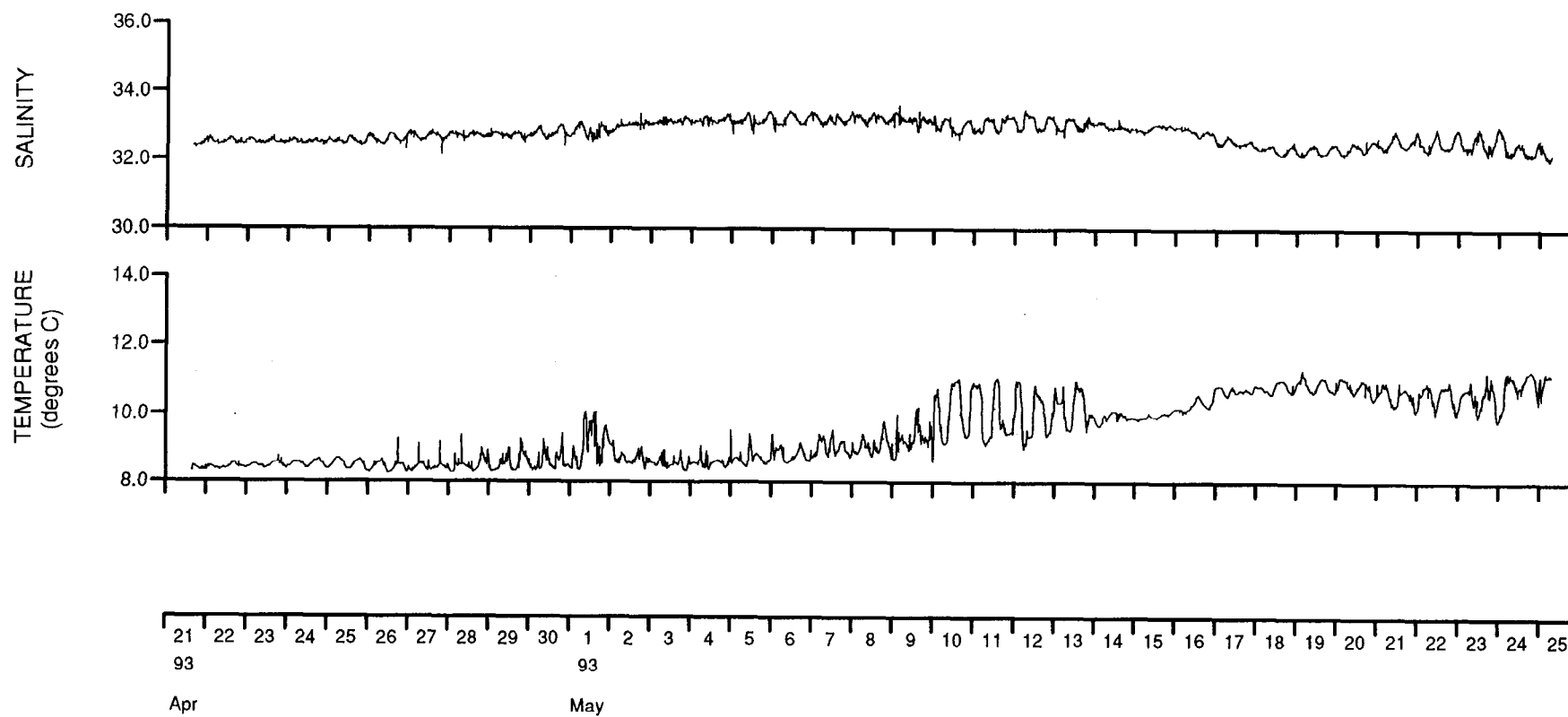


# TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 0568 Rig no. 00561 Depth of water(m) 20.0

Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00

Position 54 07.46N 03 23.35W Meter Height(m) 10.5



## Statistics for 0568

	Mean	Variance	Standard deviation
Eastings	0.0129	0.51014543E-01	0.22586399E+00
Northings	0.0154	0.44407248E-01	0.21073027E+00
Speed	0.2910	0.11155147E-01	0.10561793E+00
Vector mean speed	0.0201		
Vector Mean Direction	40.0		

### Maximum ten values

Eastings					Northings				
0.519	0.504	0.502	0.498	0.497	0.432	0.427	0.424	0.417	0.417
0.493	0.490	0.484	0.483	0.481	0.415	0.407	0.402	0.400	0.400

### Minimum ten values

Eastings					Northings				
-0.384	-0.388	-0.389	-0.389	-0.391	-0.442	-0.444	-0.445	-0.445	-0.446
-0.393	-0.396	-0.397	-0.426	-0.431	-0.453	-0.454	-0.474	-0.478	-0.479

### Maximum speeds

0.603	0.603	0.597	0.595	0.595	0.589	0.581	0.578	0.578	0.572
0.569	0.561	0.561	0.561	0.558	0.558	0.558	0.558	0.558	0.555
0.553	0.553	0.553	0.553	0.553	0.550	0.550	0.550	0.550	0.550
0.547	0.547	0.547	0.547	0.544	0.544	0.544	0.541	0.541	0.541
0.541	0.541	0.539	0.539	0.539	0.539	0.539	0.536	0.536	0.536
0.536	0.536	0.536	0.536	0.536	0.533	0.533	0.533	0.533	0.533
0.533	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.527
0.527	0.527	0.525	0.525	0.522	0.522	0.522	0.522	0.522	0.522
0.522	0.519	0.519	0.519	0.519	0.519	0.516	0.516	0.516	0.516
0.516	0.516	0.516	0.516	0.516	0.513	0.513	0.513	0.513	0.513

## Variance ellipse statistics

Maximum variance	0.7587E-01	Direction	-48.4
Minimum variance	0.1955E-01	Direction	41.6
Total variance	0.9542E-01	Ratio of variances	0.2576E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		12.5	
Average direction. maxdir +PI/2 to maxdir -PI/2		177.0	

# Filtered statistics for 0568

	Mean	Variance	Standard deviation
Eastings	0.0104	0.66329673E-03	0.25754547E-01
Northings	0.0163	0.51217447E-02	0.71566366E-01
Speed	0.0582	0.27470849E-02	0.52412644E-01
Vector mean speed	0.0193		
Vector Mean Direction	32.5		

## Maximum ten values

Eastings					Northings				
0.042	0.039	0.039	0.038	0.038	0.201	0.200	0.190	0.190	0.182
0.038	0.037	0.036	0.036	0.036	0.181	0.181	0.180	0.165	0.161

## Minimum ten values

Eastings					Northings				
-0.032	-0.033	-0.033	-0.038	-0.041	-0.064	-0.067	-0.074	-0.075	-0.076
-0.044	-0.051	-0.064	-0.068	-0.073	-0.078	-0.099	-0.101	-0.115	-0.115

## Maximum speeds

0.204	0.201	0.191	0.190	0.185	0.183	0.183	0.181	0.170	0.161
0.160	0.152	0.144	0.142	0.141	0.131	0.118	0.118	0.104	0.104
0.101	0.090	0.088	0.087	0.082	0.081	0.081	0.075	0.073	0.072
0.069	0.063	0.062	0.060	0.055	0.054	0.053	0.049	0.046	0.045
0.045	0.043	0.042	0.042	0.041	0.041	0.041	0.040	0.037	0.037
0.037	0.037	0.036	0.035	0.035	0.035	0.034	0.034	0.034	0.033
0.033	0.033	0.031	0.031	0.031	0.031	0.031	0.031	0.030	0.030
0.029	0.029	0.028	0.026	0.026	0.026	0.025	0.025	0.024	0.024
0.023	0.023	0.023	0.023	0.022	0.022	0.022	0.021	0.021	0.020
0.020	0.020	0.020	0.019	0.019	0.019	0.019	0.018	0.018	0.018

## Variance ellipse statistics

Maximum variance	0.5372E-02	Direction	-13.0
Minimum variance	0.4129E-03	Direction	77.0
Total variance	0.5785E-02	Ratio of variances	0.7686E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		32.2	
Average direction. maxdir +PI/2 to maxdir -PI/2		143.4	

**Meter information details for 6443**

Rig No	:	00561
Meter No	:	6443
Recording interval	:	600.0 seconds
Meter height from bottom	:	3.5 m
Position of meter on rig	:	B
Meter type	:	AA
Meter started	:	21-APR-93 12:40:00
Meter stopped	:	26-MAY-93 14:40:35
Period switched on	:	35.1 days
Period of good data	:	33.6 days
Total number of scans	:	4844
Timing error	:	35 seconds slow
Comments	:	Savonious paddle used

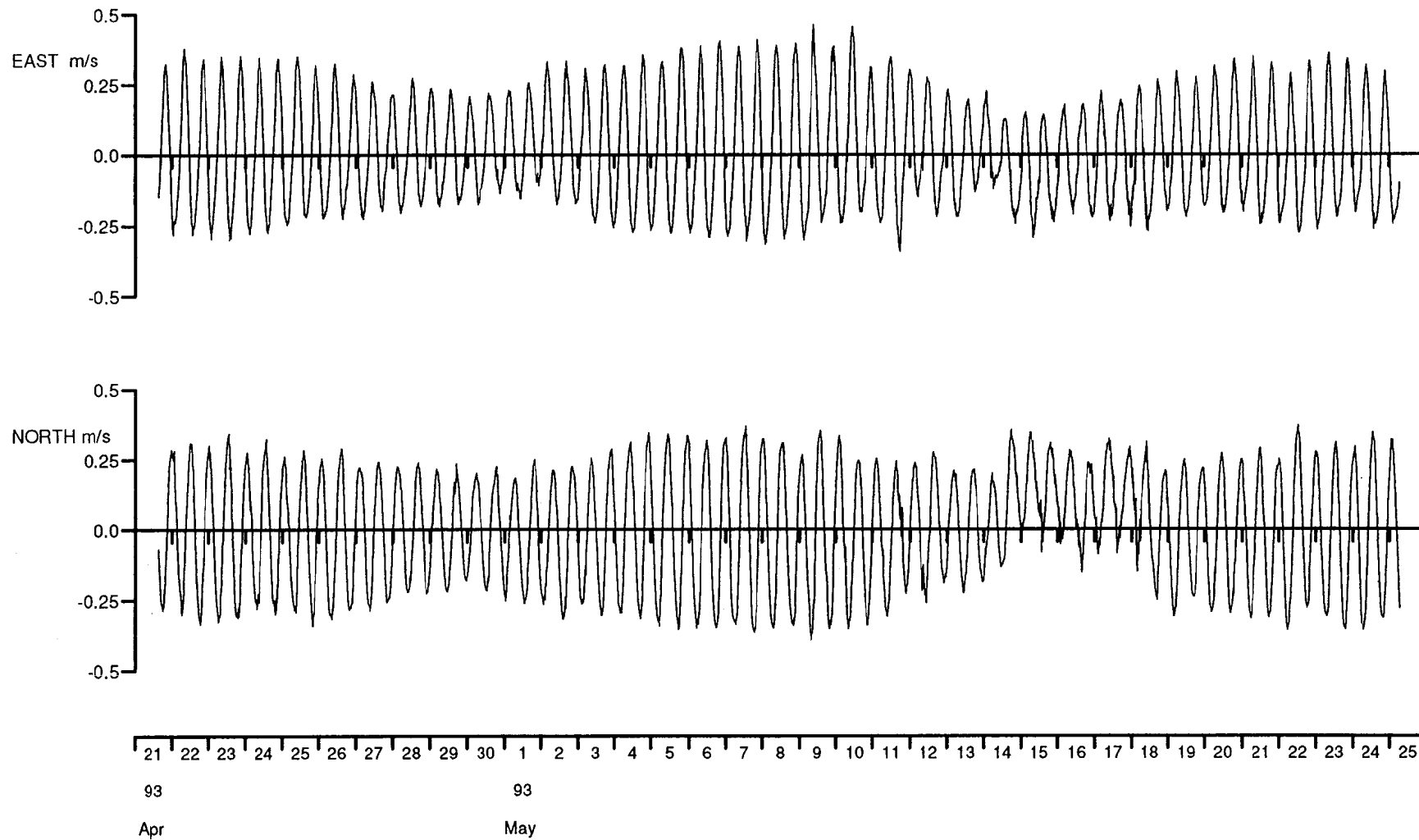


# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 6443 Rig no. 00561 Depth of water(m) 20.0

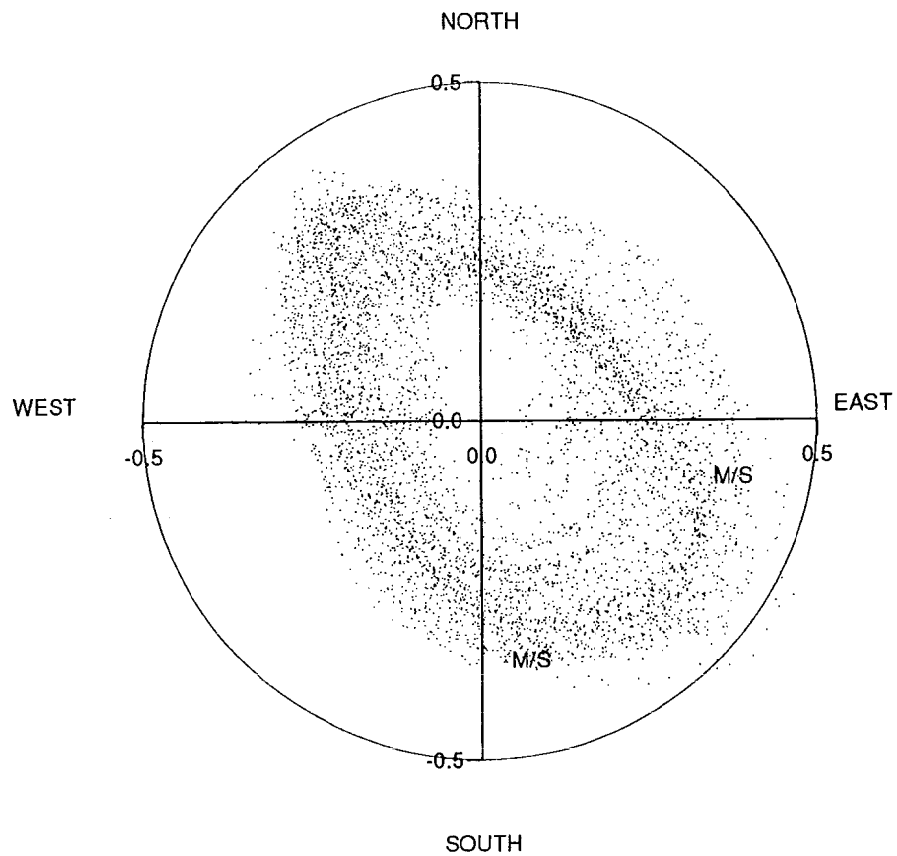
Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00

Position 54 07.46N 03 23.35W Meter Height(m) 3.5



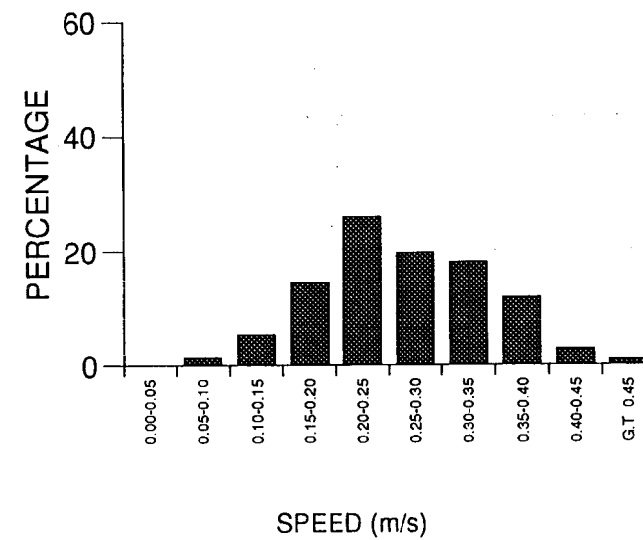
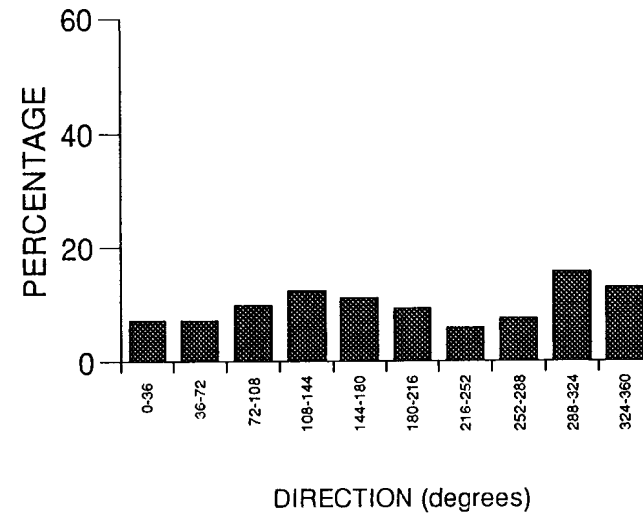
# SCATTER PLOT

Meter no. 6443 Rig no. 00561 Depth of water(m) 20.0  
 Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00  
 Position 54 07.46N 03 23.35W Meter Height(m) 3.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 6443 Rig no. 00561 Depth of water(m) 20.0  
 Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00  
 Position 54 07.46N 03 23.35W Meter Height(m) 3.5

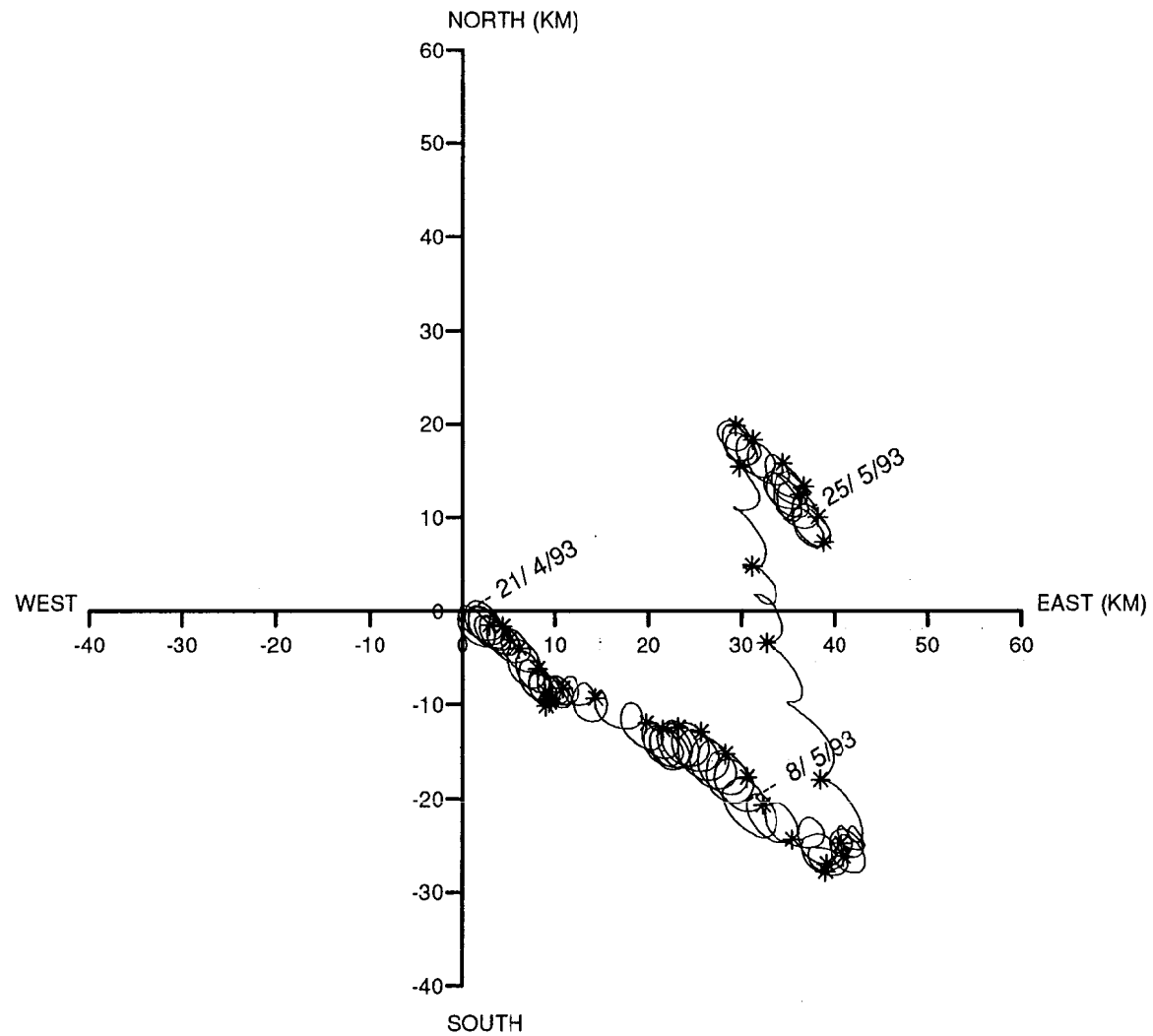


# VECTOR PLOT

Meter no. 6443 Rig no. 00561 Depth of water(m) 20.0

Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00

Position 54 07.46N 03 23.35W Meter Height(m) 3.5

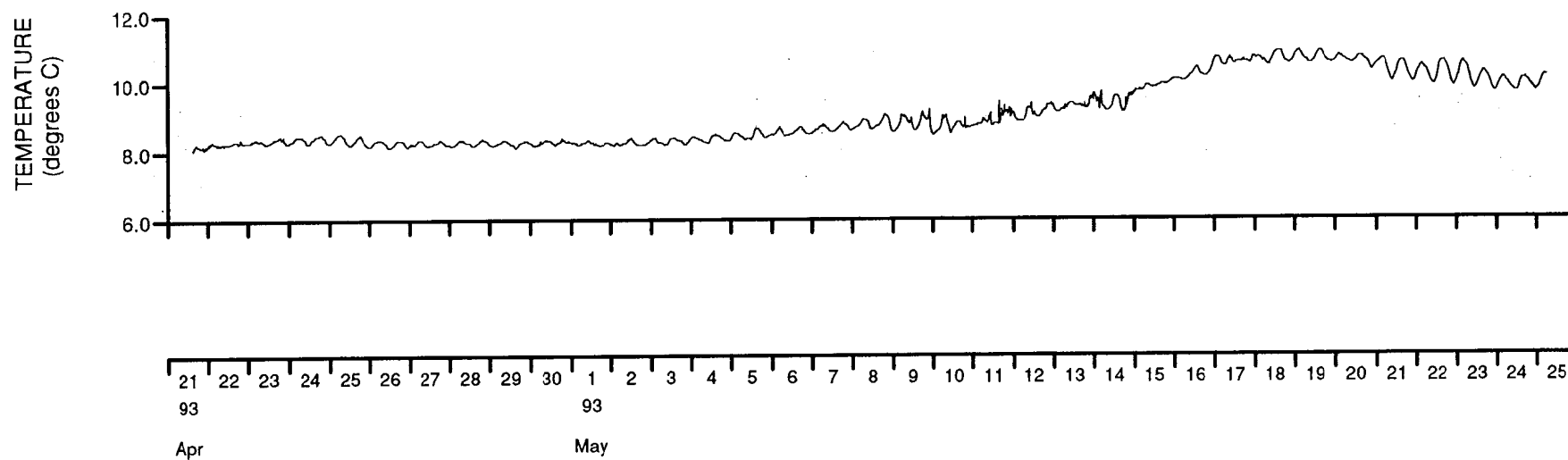


# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 6443 Rig no. 00561 Depth of water(m) 20.0

Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00

Position 54 07.46N 03 23.35W Meter Height(m) 3.5



## Statistics for 6443

	Mean	Variance	Standard deviation
Eastings	0.0120	0.35072502E-01	0.18727654E+00
Northings	0.0034	0.40430397E-01	0.20107311E+00
Speed	0.2637	0.60982192E-02	0.78091100E-01
Vector mean speed	0.0125		
Vector Mean Direction	74.2		

### Maximum ten values

Eastings					Northings				
0.463	0.454	0.450	0.449	0.446	0.371	0.369	0.369	0.367	0.358
0.443	0.441	0.439	0.439	0.437	0.356	0.356	0.355	0.354	0.352

### Minimum ten values

Eastings					Northings				
-0.309	-0.310	-0.312	-0.317	-0.323	-0.367	-0.367	-0.378	-0.379	-0.381
-0.325	-0.327	-0.336	-0.338	-0.342	-0.382	-0.384	-0.391	-0.391	-0.394

### Maximum speeds

0.533	0.530	0.525	0.520	0.516	0.511	0.506	0.504	0.498	0.484
0.478	0.474	0.474	0.473	0.471	0.471	0.471	0.470	0.470	0.470
0.467	0.467	0.464	0.464	0.464	0.464	0.462	0.462	0.462	0.460
0.459	0.459	0.459	0.457	0.456	0.456	0.456	0.455	0.453	0.452
0.450	0.450	0.448	0.448	0.448	0.446	0.446	0.443	0.442	0.442
0.441	0.439	0.439	0.439	0.438	0.438	0.438	0.438	0.436	0.436
0.436	0.436	0.435	0.434	0.434	0.434	0.434	0.432	0.432	0.432
0.429	0.429	0.429	0.428	0.428	0.428	0.428	0.427	0.427	0.427
0.425	0.425	0.425	0.424	0.424	0.424	0.424	0.424	0.424	0.422
0.422	0.422	0.421	0.421	0.421	0.421	0.420	0.420	0.420	0.420

## Variance ellipse statistics

Maximum variance	0.5291E-01	Direction	-39.9
Minimum variance	0.2259E-01	Direction	50.1
Total variance	0.7550E-01	Ratio of variances	0.4270E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		12.6	
Average direction. maxdir +PI/2 to maxdir -PI/2		179.5	

# Filtered statistics for 6443

	Mean	Variance	Standard deviation
Eastings	0.0131	0.72530902E-03	0.26931562E-01
Northings	0.0063	0.26284778E-02	0.51268682E-01
Speed	0.0437	0.16370751E-02	0.40460780E-01
Vector mean speed	0.0145		
Vector Mean Direction	64.3		

## Maximum ten values

Eastings					Northings				
0.066	0.065	0.062	0.061	0.059	0.181	0.172	0.169	0.143	0.140
0.056	0.056	0.051	0.048	0.048	0.140	0.132	0.127	0.113	0.105

## Minimum ten values

Eastings					Northings				
-0.020	-0.020	-0.023	-0.032	-0.034	-0.032	-0.033	-0.035	-0.035	-0.036
-0.050	-0.063	-0.069	-0.081	-0.081	-0.036	-0.038	-0.039	-0.041	-0.043

## Maximum speeds

0.198	0.189	0.183	0.154	0.152	0.141	0.134	0.129	0.118	0.107
0.104	0.100	0.093	0.089	0.083	0.075	0.074	0.066	0.066	0.065
0.065	0.062	0.061	0.060	0.056	0.054	0.054	0.053	0.053	0.052
0.048	0.048	0.047	0.045	0.044	0.043	0.040	0.039	0.038	0.037
0.037	0.036	0.036	0.036	0.035	0.035	0.034	0.032	0.031	0.030
0.030	0.030	0.030	0.029	0.029	0.029	0.028	0.027	0.027	0.027
0.027	0.027	0.026	0.026	0.026	0.026	0.026	0.025	0.025	0.025
0.024	0.024	0.023	0.023	0.023	0.022	0.021	0.021	0.021	0.021
0.020	0.020	0.020	0.019	0.018	0.018	0.018	0.017	0.017	0.017
0.017	0.016	0.015	0.015	0.015	0.014	0.013	0.013	0.013	0.013

## Variance ellipse statistics

Maximum variance	0.3200E-02	Direction	-25.7
Minimum variance	0.1543E-03	Direction	64.3
Total variance	0.3354E-02	Ratio of variances	0.4821E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		26.7	
Average direction. maxdir +PI/2 to maxdir -PI/2		150.3	

# STICK TIME SERIES PLOT

Rig no. 00561 Depth of water(m) 20.0

Meter No. Meter Height

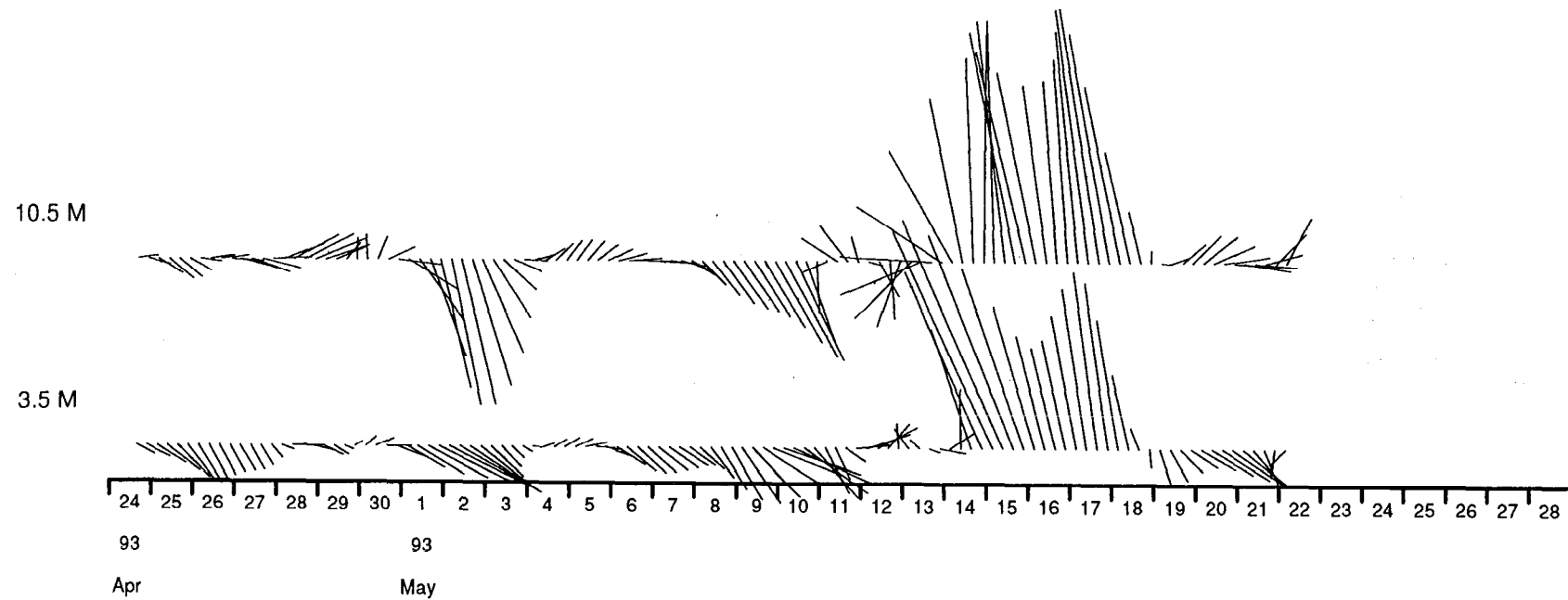
Start/End 1993/04/21 AT 15:20:00 1993/05/25 AT 06:40:00

Position 54 07.46N 03 23.35W

Filtered Series

Scale 0.1 m/s

0568	10.5 M
6443	3.5 M



**Rig information details for 00560**

Position Latitude	:	54 07.61N
Position Longitude	:	03 27.20W
Water depth	:	24.0 m
Deployed on cruise	:	P.MADOG
Recovered on cruise	:	P.MADOG
Site name identification	:	Y
Magnetic deviation	:	6.5 degrees west
Rig deployed on	:	21-APR-93 09:20:00
Rig recovered on	:	24-MAY-93 17:50:00
Period of deployment	:	33.4 days
Comments	:	1 MHz doppler, with 12 bins. Excessive marine growth on rig.



**Meter information details for 0001**

Rig No	: 00560
Meter No	: 0001
Recording interval	: 600.0 seconds
Meter height from bottom	: 0.5 m
Meter type	: DP
Meter started	: 21-APR-93 09:12:50
Meter stopped	: 24-MAY-93 17:59:06
Period switched on	: 33.4 days
Period of good data	: 33.4 days
Total number of scans	: 4803
Timing error	: 224 seconds fast
Comments	: 1 Mhz doppler, with 12 bins.

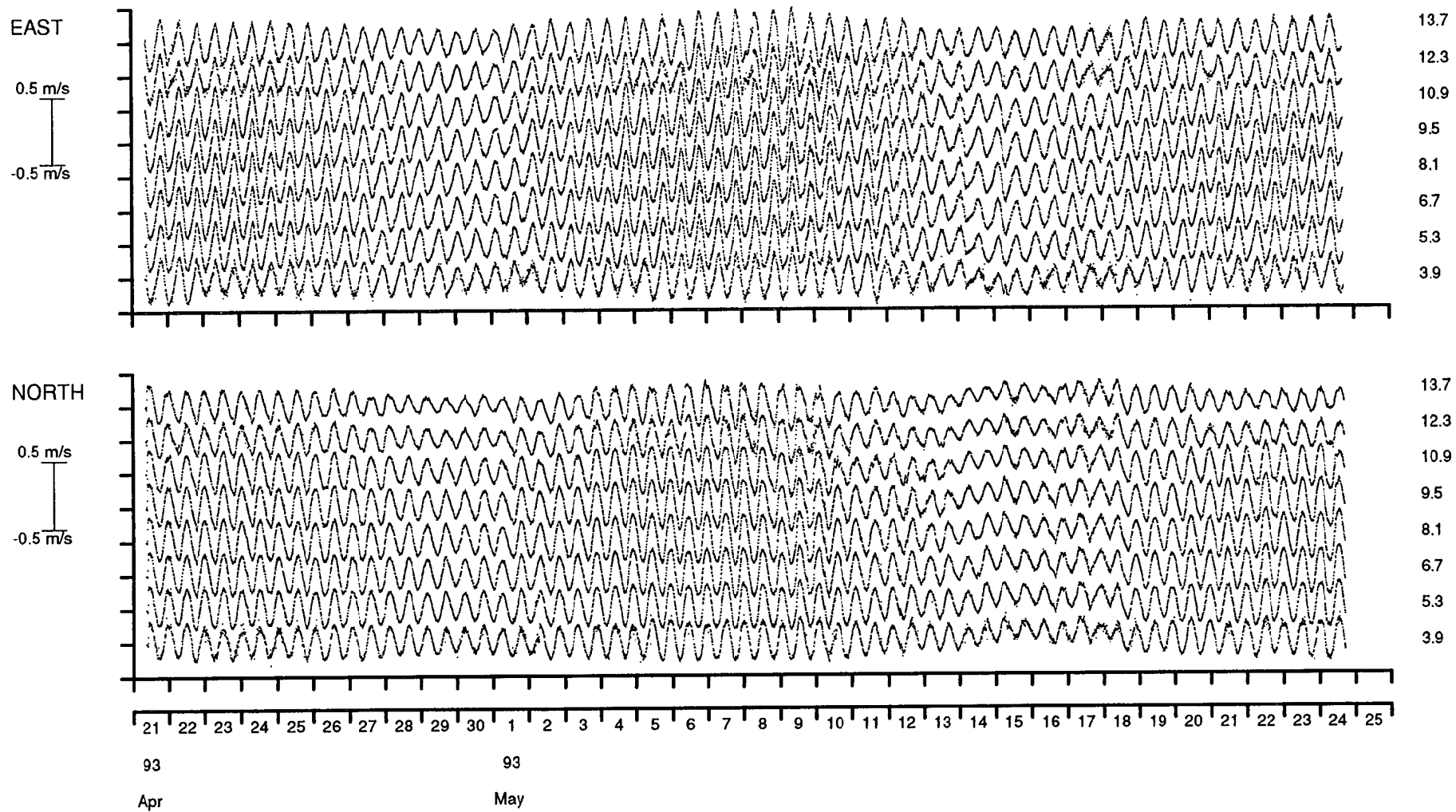
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00560 Depth of water(m) 24.0

Start/End 1993/04/21 AT 09:20:00 1993/05/24 AT 17:50:00

Position 54 07.61N 03 27.20W 3.90 Base Ht 1.40 Gap Ht

Bin Ht (m)



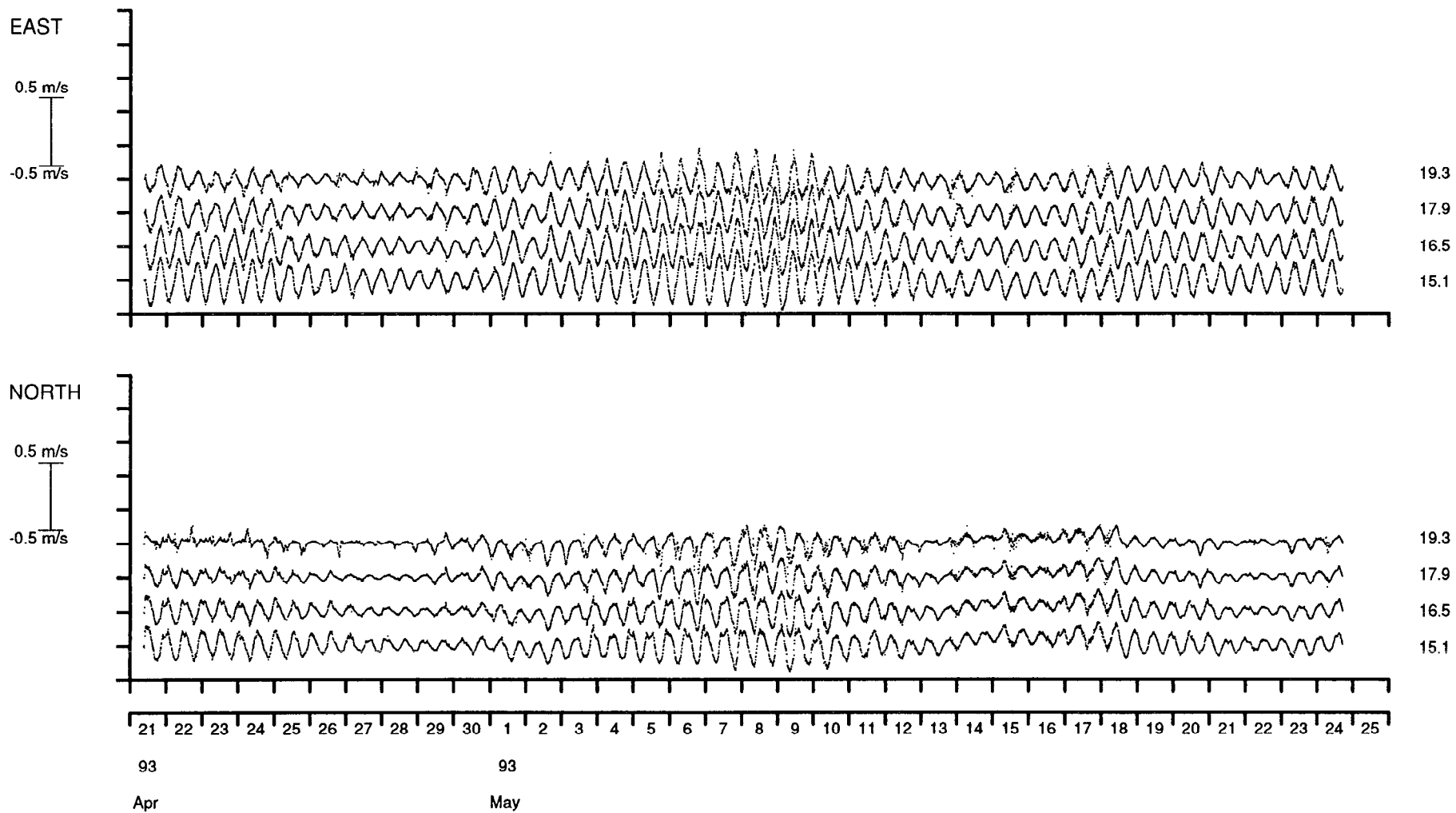
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00560 Depth of water(m) 24.0

Start/End 1993/04/21 AT 09:20:00 1993/05/24 AT 17:50:00

Position 54 07.61N 03 27.20W 3.90 Base Ht 1.40 Gap Ht

Bin Ht (m)

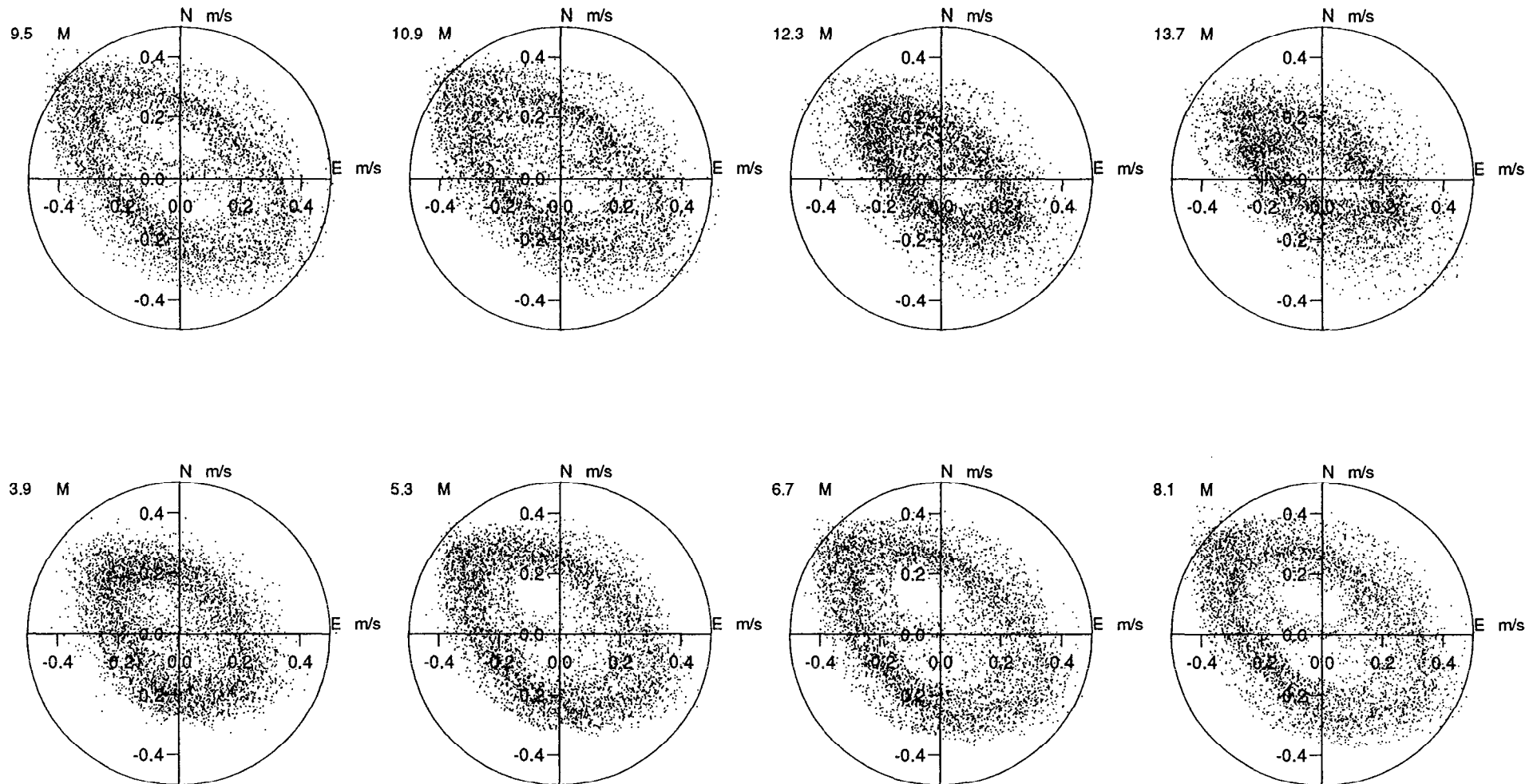


# SCATTER PLOT

Meter no. 0001 Rig no. 00560 Depth of water(m) 24.0

Start/End 1993/04/21 AT 09:20:00 1993/05/24 AT 17:50:00

Position 54 07.61N 03 27.20W 3.90 Base Ht 1.40 Gap Ht

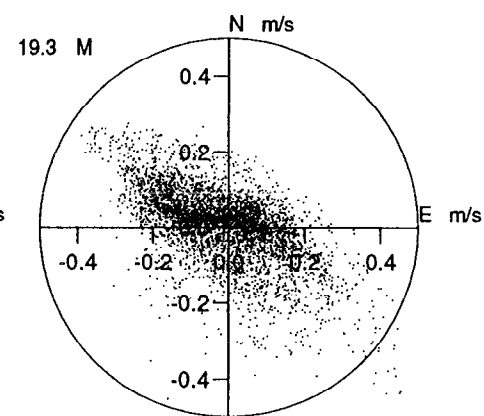
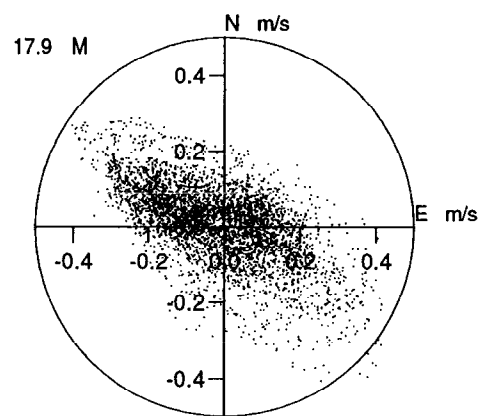
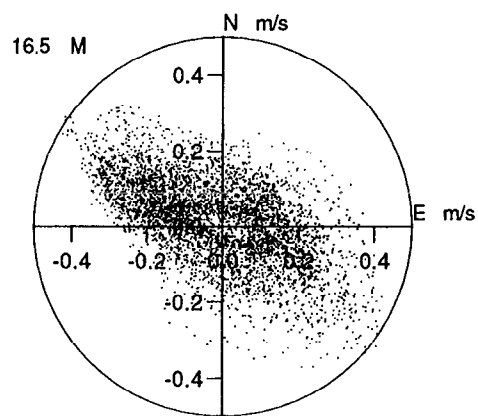
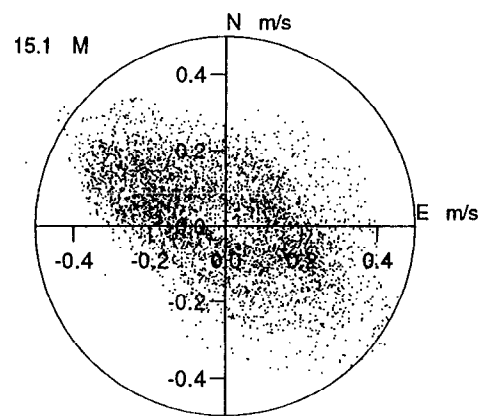


# SCATTER PLOT

Meter no. 0001 Rig no. 00560 Depth of water(m) 24.0

Start/End 1993/04/21 AT 09:20:00 1993/05/24 AT 17:50:00

Position 54 07.61N 03 27.20W 3.90 Base Ht 1.40 Gap Ht



# STICK TIME SERIES PLOT

Meter no. 0001 Rig no. 00560 Depth of water(m) 24.0

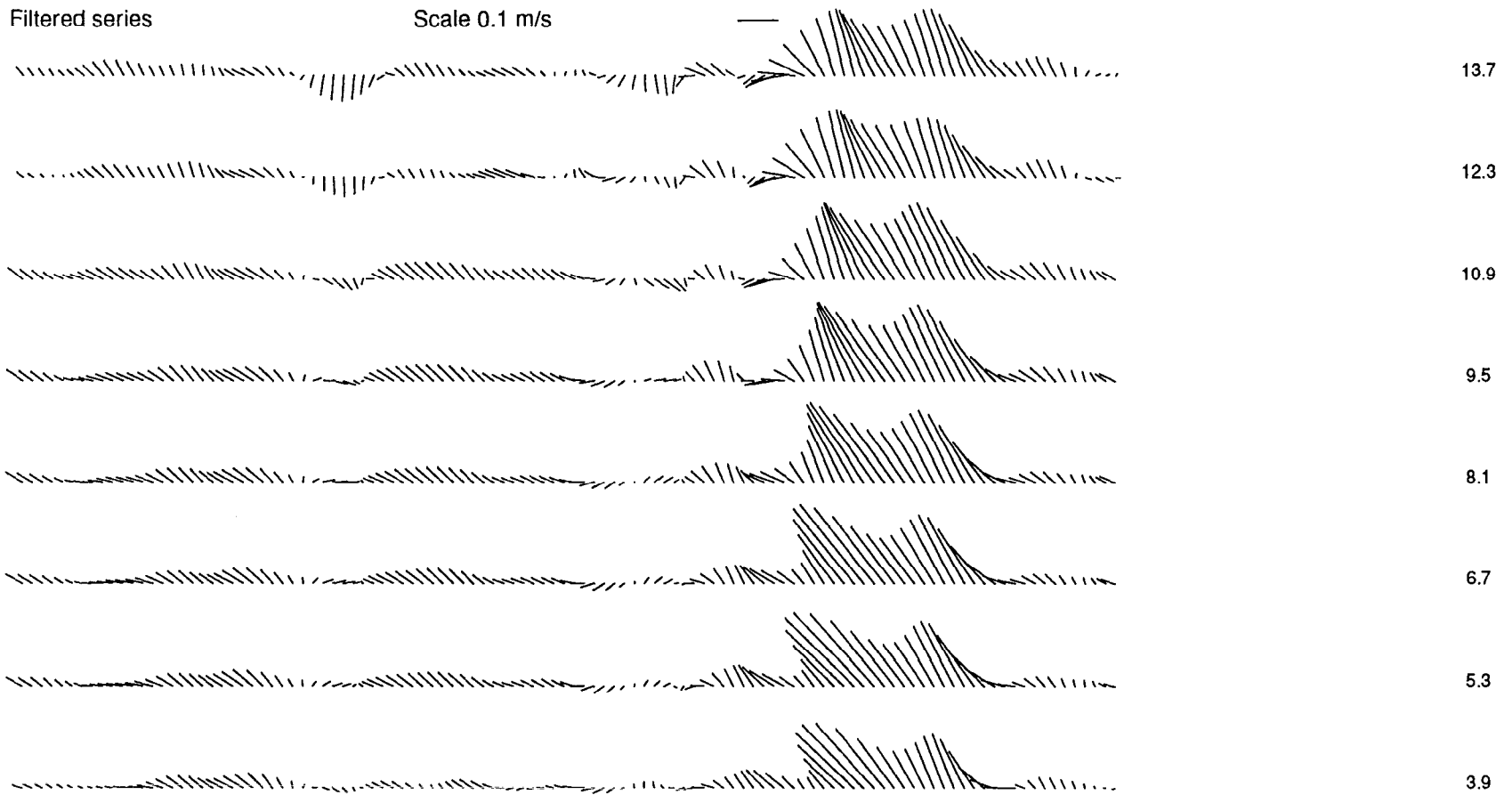
Start/End 1993/04/21 AT 09:20:00 1993/05/24 AT 17:50:00

Position 54 07.61N 03 27.20W 3.90 Base Ht 1.40 Gap Ht

Filtered series

Scale 0.1 m/s

Bin Ht (m)



24 25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28  
93 93  
Apr May

# STICK TIME SERIES PLOT

Meter no. 0001 Rig no. 00560 Depth of water(m) 24.0

Start/End 1993/04/21 AT 09:20:00 1993/05/24 AT 17:50:00

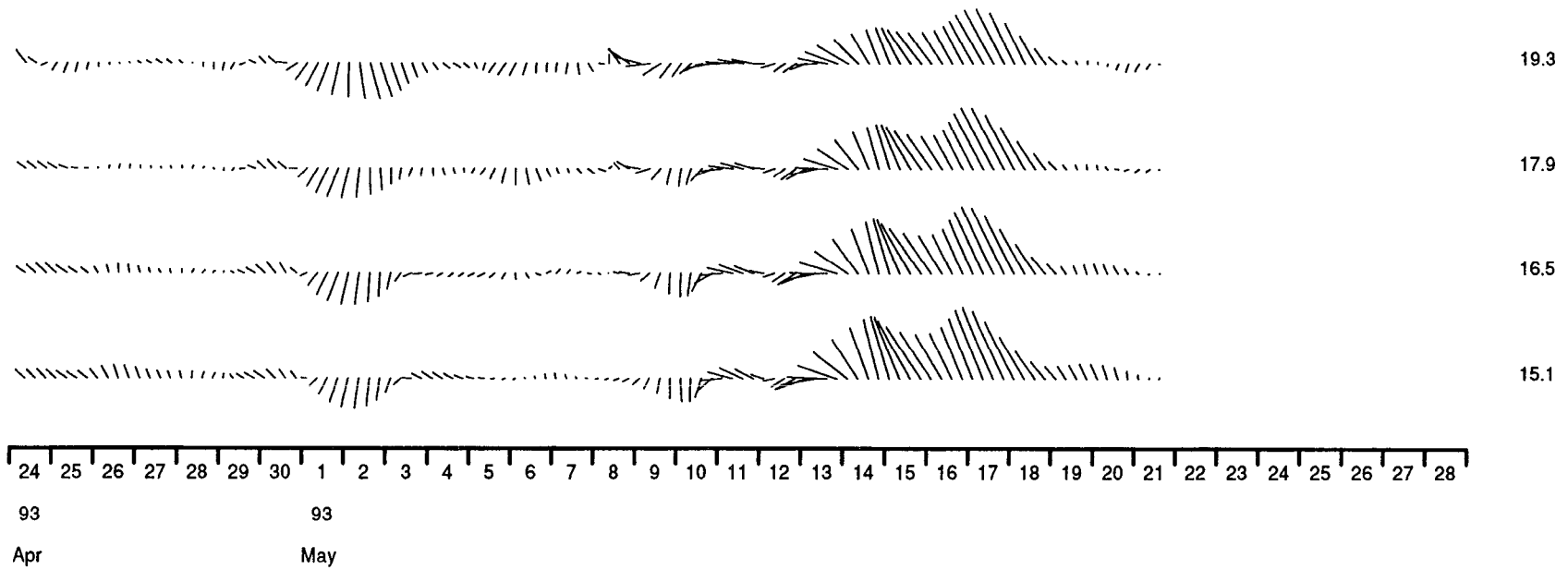
Position 54 07.61N 03 27.20W 3.90 Base Ht 1.40 Gap Ht

Filtered series

Scale 0.1 m/s

—

Bin Ht (m)



## Statistics for dp0001.00560

### Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.039	-50.7	0.0386	-46.8	0.0175	43.2
2	5.3	0.051	-50.0	0.0553	-51.8	0.0247	38.2
3	6.7	0.054	-48.7	0.0620	-52.1	0.0268	37.9
4	8.1	0.056	-46.3	0.0651	-52.2	0.0269	37.8
5	9.5	0.056	-43.6	0.0659	-53.2	0.0252	36.8
6	10.9	0.053	-41.8	0.0624	-55.0	0.0215	35.0
7	12.3	0.036	-38.7	0.0424	-52.7	0.0122	37.3
8	13.7	0.037	-40.9	0.0453	-57.6	0.0122	32.4
9	15.1	0.034	-46.2	0.0405	-61.9	0.0097	28.1
10	16.5	0.027	-52.2	0.0327	-63.0	0.0065	27.0
11	17.9	0.022	-61.6	0.0258	-61.8	0.0047	28.2
12	19.3	0.022	-67.6	0.0208	-59.8	0.0044	30.2



## Statistics for dp0001.00560

### Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.040	-48.2	0.0023	-35.7	0.0002	54.3
2	5.3	0.051	-47.7	0.0031	-37.7	0.0002	52.3
3	6.7	0.053	-45.9	0.0034	-33.5	0.0002	56.5
4	8.1	0.054	-43.4	0.0034	-29.0	0.0003	61.0
5	9.5	0.055	-40.6	0.0035	-25.8	0.0003	64.2
6	10.9	0.052	-39.4	0.0037	-24.5	0.0002	65.5
7	12.3	0.038	-39.0	0.0029	-18.8	0.0003	71.2
8	13.7	0.039	-42.2	0.0032	-17.5	0.0003	72.5
9	15.1	0.035	-48.4	0.0032	-17.7	0.0003	72.3
10	16.5	0.029	-55.4	0.0028	-19.0	0.0004	71.0
11	17.9	0.023	-66.5	0.0024	-21.2	0.0003	68.8
12	19.3	0.022	-78.9	0.0024	-23.3	0.0003	66.7

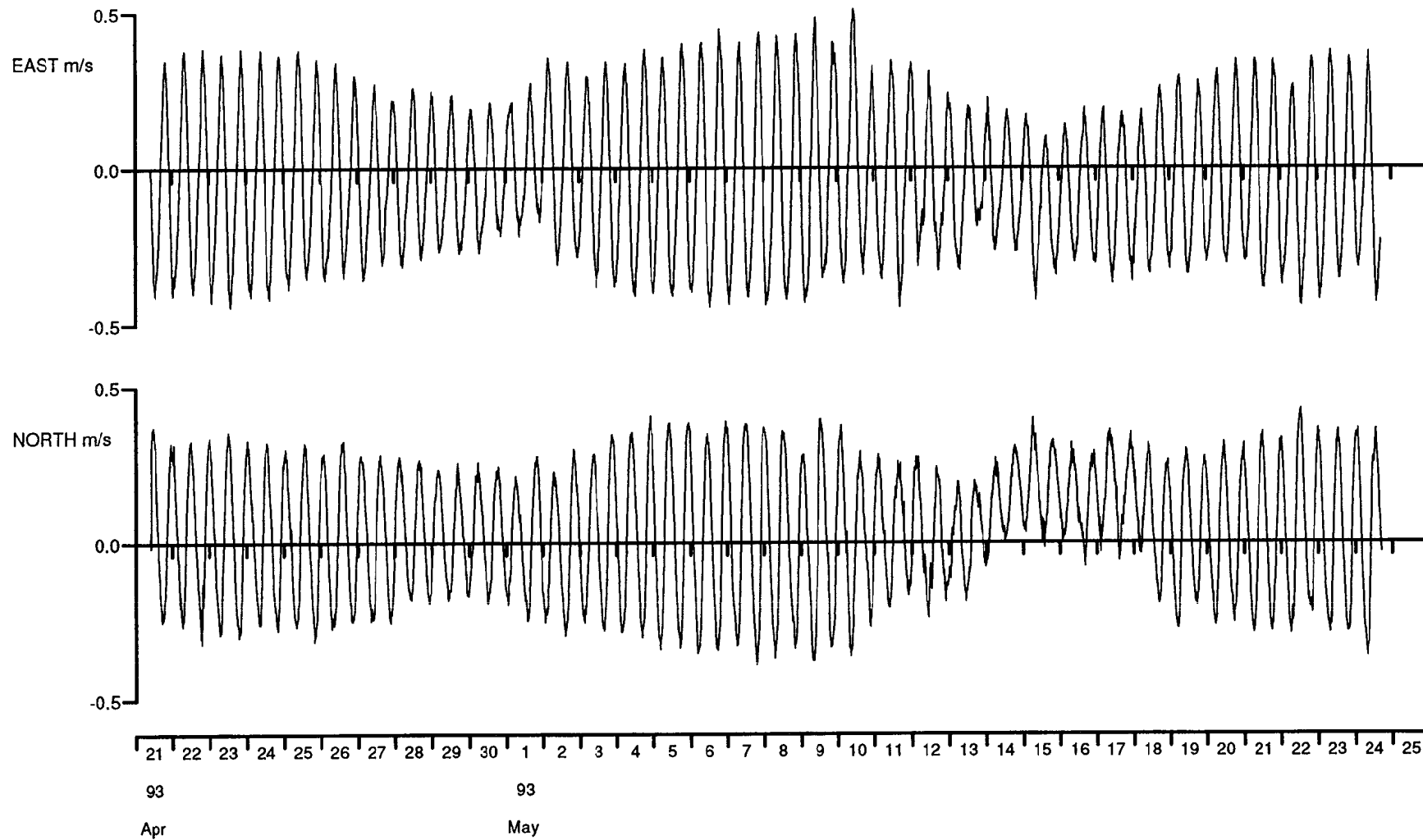
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00560 Depth of water(m) 24.0

Start/End 1993/04/21 AT 09:20:00 1993/05/24 AT 17:50:00

Position 54 07.61N 03 27.20W 3.90 Base Ht 1.40 Gap Ht 9.5 Bin Ht (m)

Bin closest to depth average



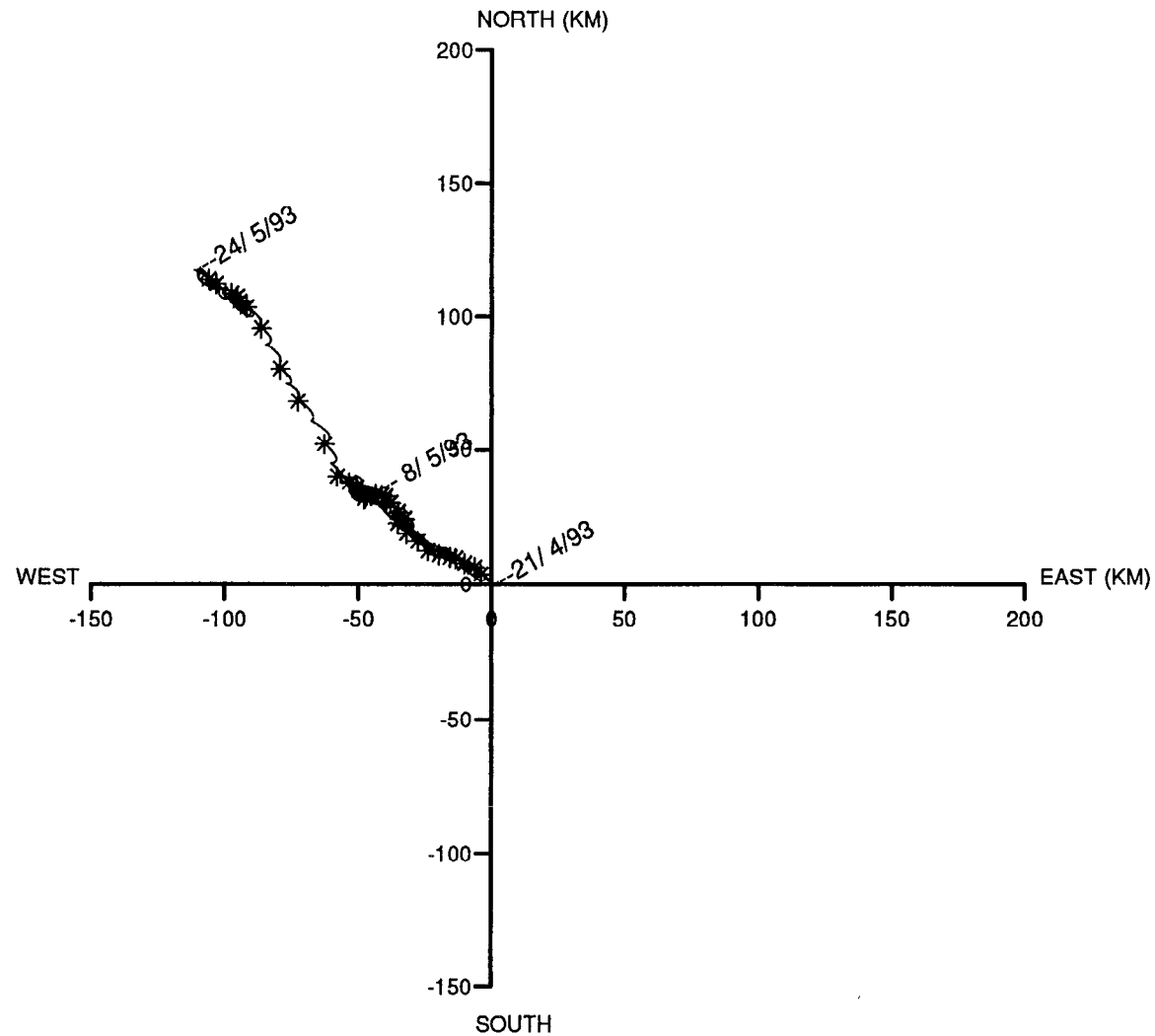
# VECTOR PLOT

Meter no. 0001 Rig no. 00560 Depth of water(m) 24.0

Start/End 1993/04/21 AT 09:20:00 1993/05/24 AT 17:50:00

Position 54 07.61N 03 27.20W 3.90 Base Ht 1.40 Gap Ht 9.5 Bin Ht (m)

Bin closest to depth average



## Filtered Statistics for dp0001.00560s5f

Doppler bin number 5

	Mean	Variance	Standard deviation
Eastings	-0.0356	0.90228213E-03	0.30038010E-01
Northings	0.0414	0.28743148E-02	0.53612638E-01
Speed	0.0616	0.29557836E-02	0.54367118E-01
Vector mean speed	0.0546		
Vector Mean Direction	-40.6		

### Maximum ten values

Eastings					Northings				
0.035	0.031	0.029	0.028	0.027	0.193	0.191	0.185	0.184	0.179
0.019	0.017	0.016	0.015	0.004	0.178	0.174	0.167	0.161	0.154

### Minimum ten values

Eastings					Northings				
-0.086	-0.087	-0.088	-0.092	-0.092	-0.002	-0.005	-0.006	-0.007	-0.008
-0.092	-0.105	-0.113	-0.120	-0.124	-0.009	-0.010	-0.010	-0.012	-0.014

### Maximum speeds

0.224	0.222	0.212	0.207	0.205	0.198	0.197	0.190	0.182	0.180
0.168	0.162	0.162	0.161	0.154	0.128	0.126	0.095	0.085	0.068
0.059	0.058	0.058	0.057	0.057	0.057	0.057	0.056	0.056	0.056
0.055	0.055	0.053	0.053	0.050	0.050	0.049	0.049	0.049	0.048
0.048	0.048	0.047	0.047	0.047	0.047	0.046	0.046	0.046	0.045
0.044	0.044	0.044	0.044	0.043	0.043	0.043	0.043	0.043	0.043
0.043	0.042	0.040	0.039	0.039	0.039	0.039	0.039	0.039	0.038
0.038	0.037	0.037	0.037	0.037	0.036	0.036	0.035	0.035	0.034
0.034	0.033	0.032	0.032	0.031	0.031	0.030	0.030	0.030	0.029
0.029	0.028	0.028	0.028	0.024	0.024	0.024	0.024	0.024	0.024

## Variance ellipse statistics

Maximum variance	0.3477E-02	Direction	-25.8
Minimum variance	0.3001E-03	Direction	64.2
Total variance	0.3777E-02	Ratio of variances	0.8632E-01
Average direction. maxdir -PI/2 to maxdir +PI/2			-21.4
Average direction. maxdir +PI/2 to maxdir -PI/2			145.9

## Filtered Statistics for dp0001.00560s5f

Doppler bin number 5

	Mean	Variance	Standard deviation
Eastings	-0.0356	0.90228213E-03	0.30038010E-01
Northings	0.0414	0.28743148E-02	0.53612638E-01
Speed	0.0616	0.29557836E-02	0.54367118E-01
Vector mean speed	0.0546		
Vector Mean Direction	-40.6		

### Maximum ten values

Eastings					Northings				
0.035	0.031	0.029	0.028	0.027	0.193	0.191	0.185	0.184	0.179
0.019	0.017	0.016	0.015	0.004	0.178	0.174	0.167	0.161	0.154

### Minimum ten values

Eastings					Northings				
-0.086	-0.087	-0.088	-0.092	-0.092	-0.002	-0.005	-0.006	-0.007	-0.008
-0.092	-0.105	-0.113	-0.120	-0.124	-0.009	-0.010	-0.010	-0.012	-0.014

### Maximum speeds

0.224	0.222	0.212	0.207	0.205	0.198	0.197	0.190	0.182	0.180
0.168	0.162	0.162	0.161	0.154	0.128	0.126	0.095	0.085	0.068
0.059	0.058	0.058	0.057	0.057	0.057	0.057	0.056	0.056	0.056
0.055	0.055	0.053	0.053	0.050	0.050	0.049	0.049	0.049	0.048
0.048	0.048	0.047	0.047	0.047	0.047	0.046	0.046	0.046	0.045
0.044	0.044	0.044	0.044	0.043	0.043	0.043	0.043	0.043	0.043
0.043	0.042	0.040	0.039	0.039	0.039	0.039	0.039	0.039	0.038
0.038	0.037	0.037	0.037	0.037	0.036	0.036	0.035	0.035	0.034
0.034	0.033	0.032	0.032	0.031	0.031	0.030	0.030	0.030	0.029
0.029	0.028	0.028	0.028	0.024	0.024	0.024	0.024	0.024	0.024

## Variance ellipse statistics

Maximum variance	0.3477E-02	Direction	-25.8
Minimum variance	0.3001E-03	Direction	64.2
Total variance	0.3777E-02	Ratio of variances	0.8632E-01
Average direction. maxdir -PI/2 to maxdir +PI/2	-21.4		
Average direction. maxdir +PI/2 to maxdir -PI/2	145.9		

**Rig information details for 00563**

Position Latitude	:	54 07.46N
Position Longitude	:	03 23.35W
Water depth	:	24.0 m
Deployed on cruise	:	P.MADOG
Recovered on cruise	:	P.MADOG
Site name identification	:	Y
Magnetic deviation	:	6.7 degrees west
Rig deployed on	:	26-MAY-93 07:50:00
Rig recovered on	:	22-JUN-93 11:00:00
Period of deployment	:	27.1 days
Comments	:	<p>Top transmissometer missing and fishing net wrapped around bar. Rig also off position when recovered.</p> <p>Top RCM (7570) malfunctioned totally. Bottom RCM (4387) shows no obvious 'jump', but has spikes on 9th June, just after midnight, and this may have been when the rig was moved.</p> <p>Recovery position is from ships log.</p>

**Meter information details for 4387**

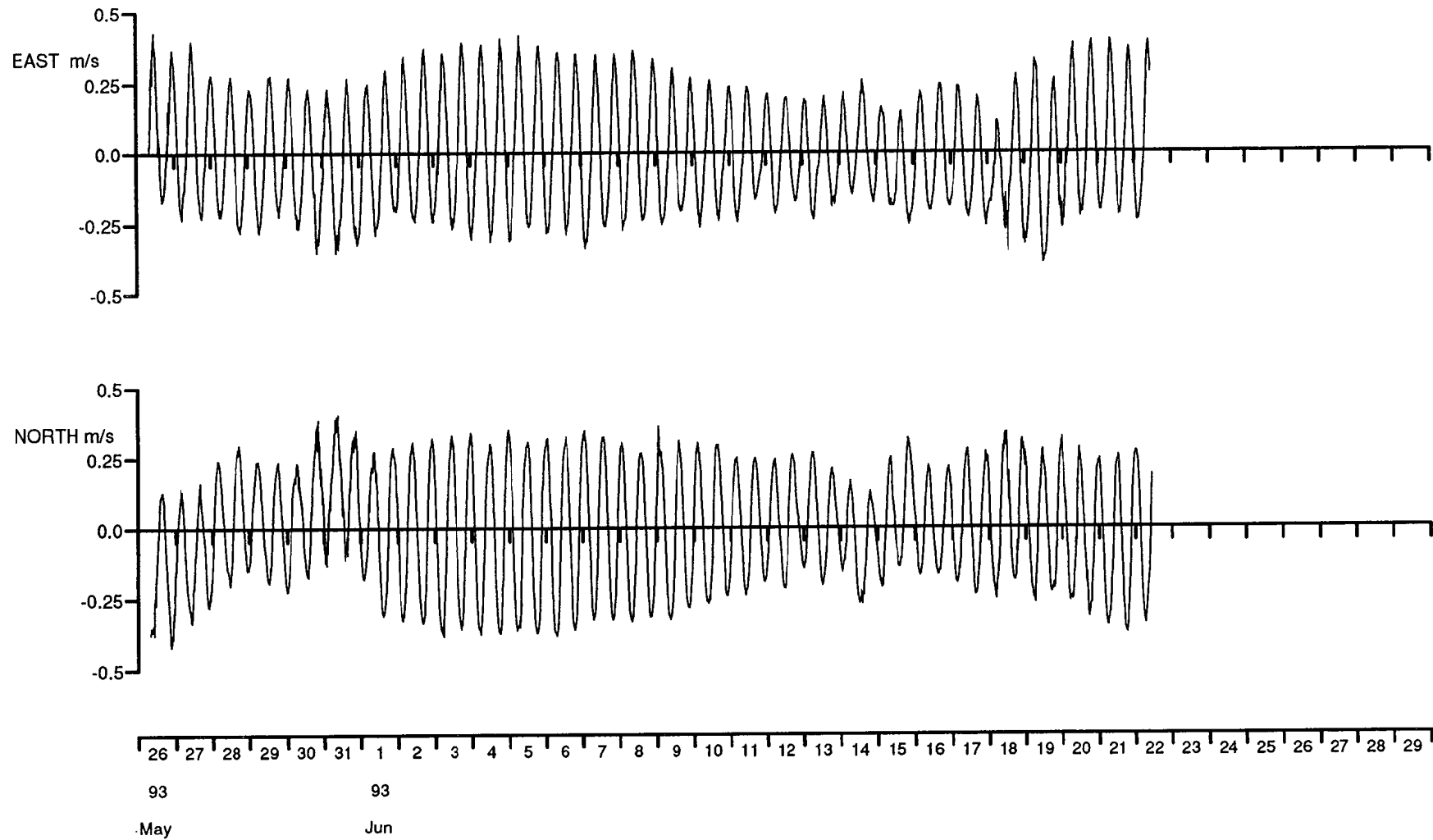
Rig No	: 00563
Meter No	: 4387
Recording interval	: 600.0 seconds
Meter height from bottom	: 3.5 m
Position of meter on rig	: B
Meter type	: AA
Meter started	: 25-MAY-93 06:30:00
Meter stopped	: 28-JUN-93 10:40:00
Period switched on	: 34.2 days
Period of good data	: 27.1 days
Total number of scans	: 3906
Timing error	: None
Comments	: Rig damaged and off position, but good record obtained from RCM 4387. See also rig comments.

# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 4387 Rig no. 00563 Depth of water(m) 24.0

Start/End 1993/05/26 AT 07:50:00 1993/06/22 AT 11:00:00

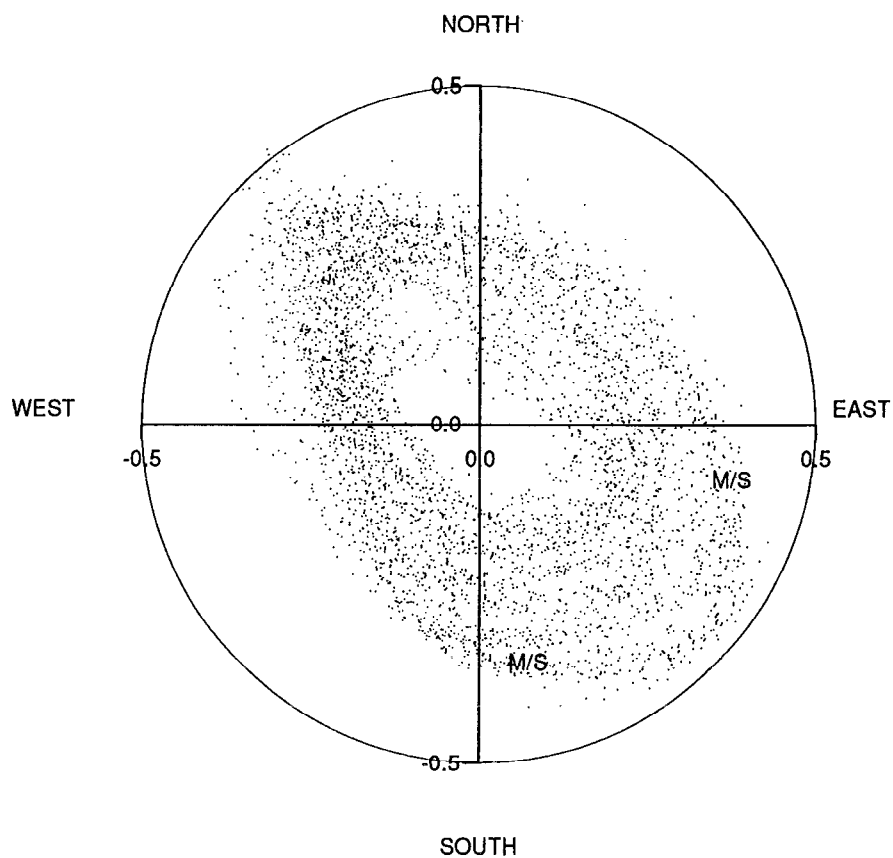
Position 54 07.46N 03 23.35W Meter Height(m) 3.5





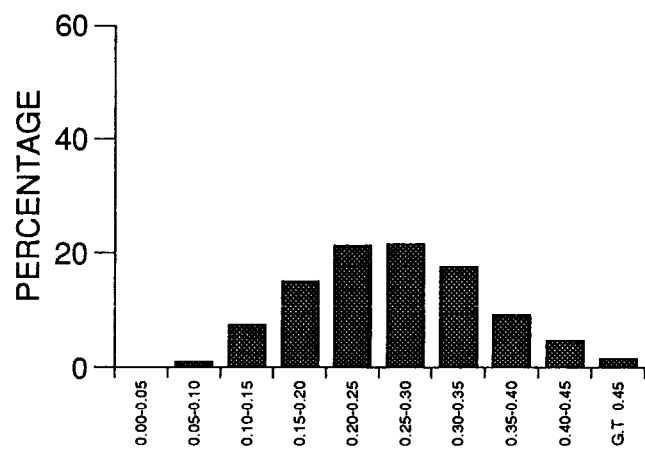
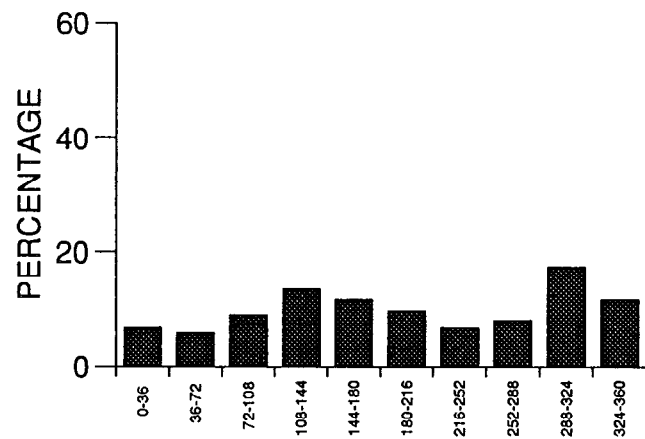
# SCATTER PLOT

Meter no. 4387 Rig no. 00563 Depth of water(m) 24.0  
 Start/End 1993/05/26 AT 07:50:00 1993/06/22 AT 11:00:00  
 Position 54 07.46N 03 23.35W Meter Height(m) 3.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 4387 Rig no. 00563 Depth of water(m) 24.0  
 Start/End 1993/05/26 AT 07:50:00 1993/06/22 AT 11:00:00  
 Position 54 07.46N 03 23.35W Meter Height(m) 3.5



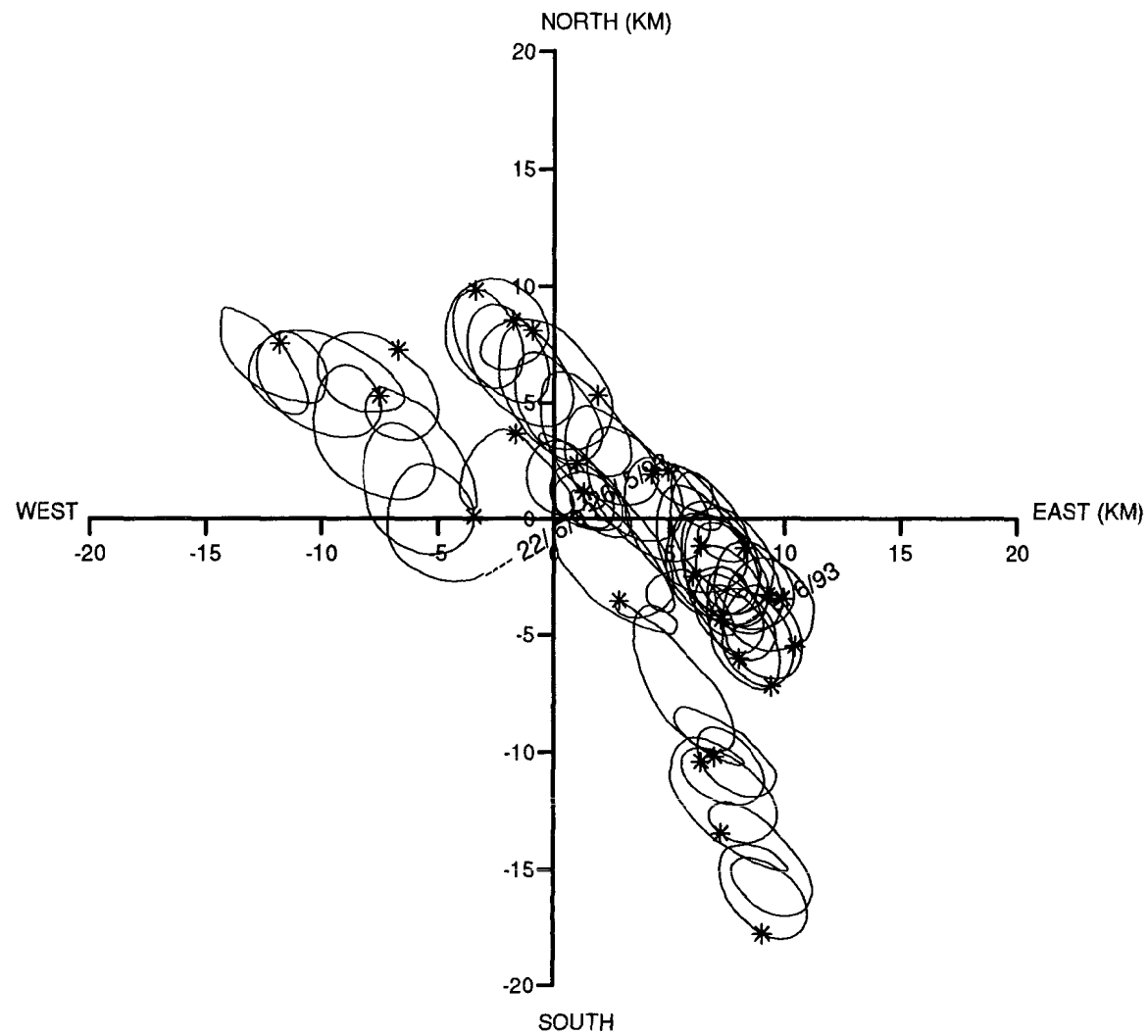
SPEED (m/s)

# VECTOR PLOT

Meter no. 4387 Rig no. 00563 Depth of water(m) 24.0

Start/End 1993/05/26 AT 07:50:00 1993/06/22 AT 11:00:00

Position 54 07.46N 03 23.35W Meter Height(m) 3.5

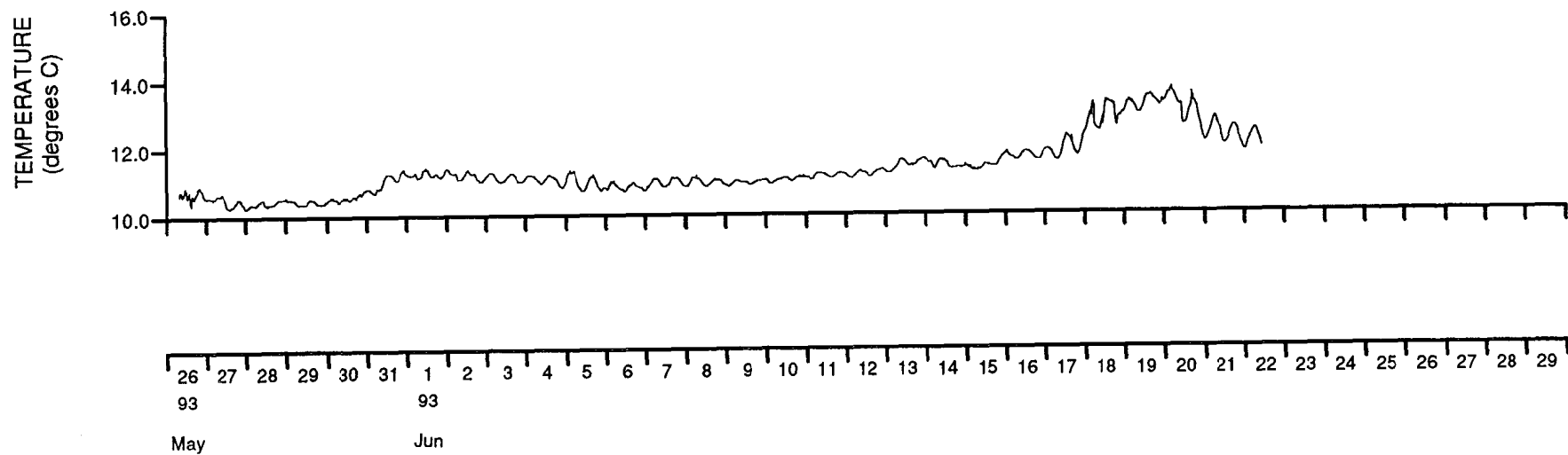


# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 4387 Rig no. 00563 Depth of water(m) 24.0

Start/End 1993/05/26 AT 07:50:00 1993/06/22 AT 11:00:00

Position 54 07.46N 03 23.35W Meter Height(m) 3.5



# STICK TIME SERIES PLOT

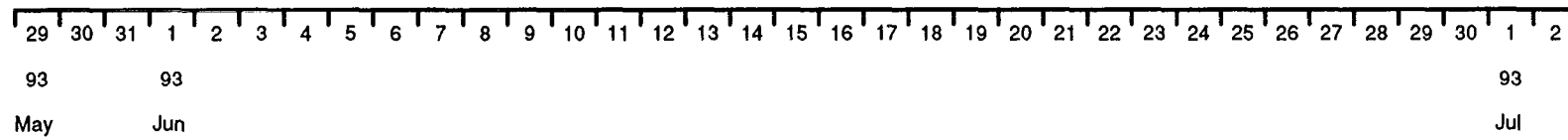
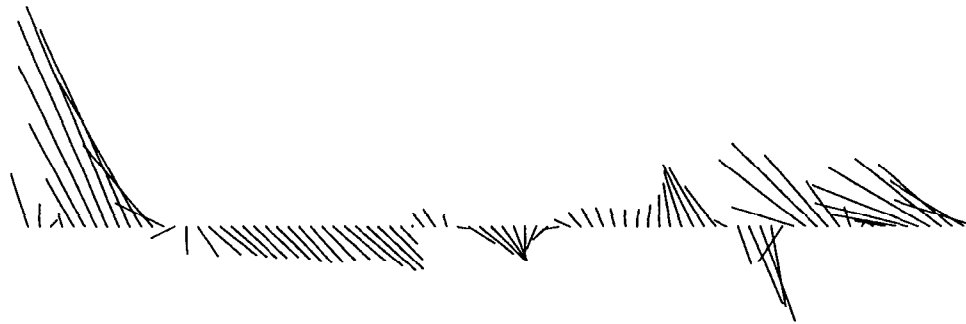
Meter no. 4387 Rig no. 00563 Depth of water(m) 24.0

Start/End 1993/05/26 AT 07:50:00 1993/06/22 AT 11:00:00

Position 54 07.46N 03 23.35W Meter Height(m) 3.5

Filtered series

Scale 0.1 m/s



## Statistics for aa4387b.00563s

	Mean	Variance	Standard deviation
Eastings	-0.0013	0.36337174E-01	0.19062310E+00
Northings	-0.0010	0.40585332E-01	0.20145802E+00
Speed	0.2645	0.69255889E-02	0.83220117E-01
Vector mean speed	0.0016		
Vector Mean Direction	-127.2		

### Maximum ten values

Eastings					Northings				
0.429	0.416	0.406	0.405	0.398	0.405	0.398	0.397	0.396	0.388
0.398	0.397	0.394	0.394	0.393	0.387	0.376	0.374	0.371	0.366

### Minimum ten values

Eastings					Northings				
-0.366	-0.368	-0.368	-0.372	-0.372	-0.382	-0.383	-0.389	-0.390	-0.390
-0.380	-0.384	-0.386	-0.386	-0.392	-0.393	-0.405	-0.406	-0.415	-0.417

### Maximum speeds

0.513	0.505	0.494	0.494	0.494	0.491	0.488	0.488	0.488	0.483
0.480	0.480	0.480	0.477	0.477	0.474	0.471	0.471	0.471	0.471
0.471	0.471	0.469	0.469	0.469	0.469	0.466	0.466	0.466	0.466
0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.463	0.460
0.460	0.460	0.460	0.460	0.460	0.457	0.457	0.457	0.457	0.457
0.457	0.457	0.457	0.457	0.455	0.455	0.452	0.452	0.452	0.452
0.452	0.452	0.452	0.452	0.452	0.449	0.449	0.449	0.449	0.449
0.449	0.449	0.449	0.449	0.446	0.446	0.446	0.446	0.446	0.446
0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.443	0.441	0.441
0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.441	0.438

## Variance ellipse statistics

Maximum variance	0.5494E-01	Direction	-41.3
Minimum variance	0.2198E-01	Direction	48.7
Total variance	0.7692E-01	Ratio of variances	0.4002E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		10.1	
Average direction. maxdir +PI/2 to maxdir -PI/2		182.6	

# Filtered Statistics for aa4387b.00563sf

	Mean	Variance	Standard deviation
Eastings	-0.0096	0.99028309E-03	0.31468764E-01
Northings	0.0100	0.18561083E-02	0.43082576E-01
Speed	0.0421	0.12434749E-02	0.35262939E-01
Vector mean speed	0.0139		
Vector Mean Direction	-43.9		

## Maximum ten values

Eastings					Northings				
0.035	0.034	0.032	0.030	0.027	0.161	0.151	0.144	0.118	0.106
0.026	0.026	0.026	0.025	0.024	0.075	0.060	0.059	0.052	0.049

## Minimum ten values

Eastings					Northings				
-0.061	-0.063	-0.063	-0.063	-0.066	-0.027	-0.027	-0.027	-0.028	-0.030
-0.066	-0.068	-0.068	-0.074	-0.078	-0.032	-0.033	-0.057	-0.060	-0.070

## Maximum speeds

0.175	0.165	0.159	0.131	0.122	0.087	0.086	0.085	0.084	0.080
0.080	0.078	0.075	0.070	0.070	0.070	0.063	0.063	0.062	0.060
0.050	0.050	0.049	0.048	0.047	0.046	0.045	0.042	0.040	0.040
0.040	0.040	0.040	0.037	0.036	0.036	0.036	0.035	0.035	0.035
0.034	0.034	0.034	0.034	0.034	0.033	0.033	0.032	0.032	0.032
0.032	0.031	0.030	0.026	0.026	0.023	0.023	0.022	0.021	0.020
0.020	0.018	0.018	0.017	0.016	0.016	0.015	0.015	0.015	0.015
0.014	0.013	0.013	0.013	0.012	0.012	0.012	0.010	0.010	0.009
0.008	0.007	0.005	0.003	0.001					

## Variance ellipse statistics

Maximum variance	0.2592E-02	Direction	-34.1
Minimum variance	0.2543E-03	Direction	55.9
Total variance	0.2846E-02	Ratio of variances	0.9812E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		-0.1	
Average direction. maxdir +PI/2 to maxdir -PI/2		181.5	

**Rig information details for 00562**

Position Latitude	:	54 07.52N
Position Longitude	:	03 27.27W
Water depth	:	18.0 m
Deployed on cruise	:	P.MADOG
Recovered on cruise	:	P.MADOG
Site name identification	:	Y
Magnetic deviation	:	5.7 degrees west
Rig deployed on	:	24-MAY-93 19:40:00
Rig recovered on	:	22-JUN-93 06:20:00
Period of deployment	:	28.4 days
Comments	:	On recovery, pellet float missing, and leaded line on torroid/anchor has been cut. Trawling suspected. Rig covered in barnacles.

**Meter information details for 0010**

Rig No	: 00562
Meter No	: 0010
Recording interval	: 600.0 seconds
Meter height from bottom	: 0.5 m
Meter type	: DP
Meter started	: 24-MAY-93 19:19:00
Meter stopped	: 22-JUN-93 06:39:20
Period switched on	: 28.5 days
Period of good data	: 28.4 days
Total number of scans	: 4096
Timing error	: 20 seconds slow
Comments	: 1 MHz doppler, with 12 bins. Rig trawled twice, shown up in doppler time series record. Trawled times vis:- 31-May-93(0309) and 4-Jun-93(2219). Beam connections reversed. ie. Beam 1 set up as Beam 2 and vice versa. Correction of -18 degs. applied to compass between 31-May and 4-Jun trawls. Data now looks better, but should still be treated with caution.



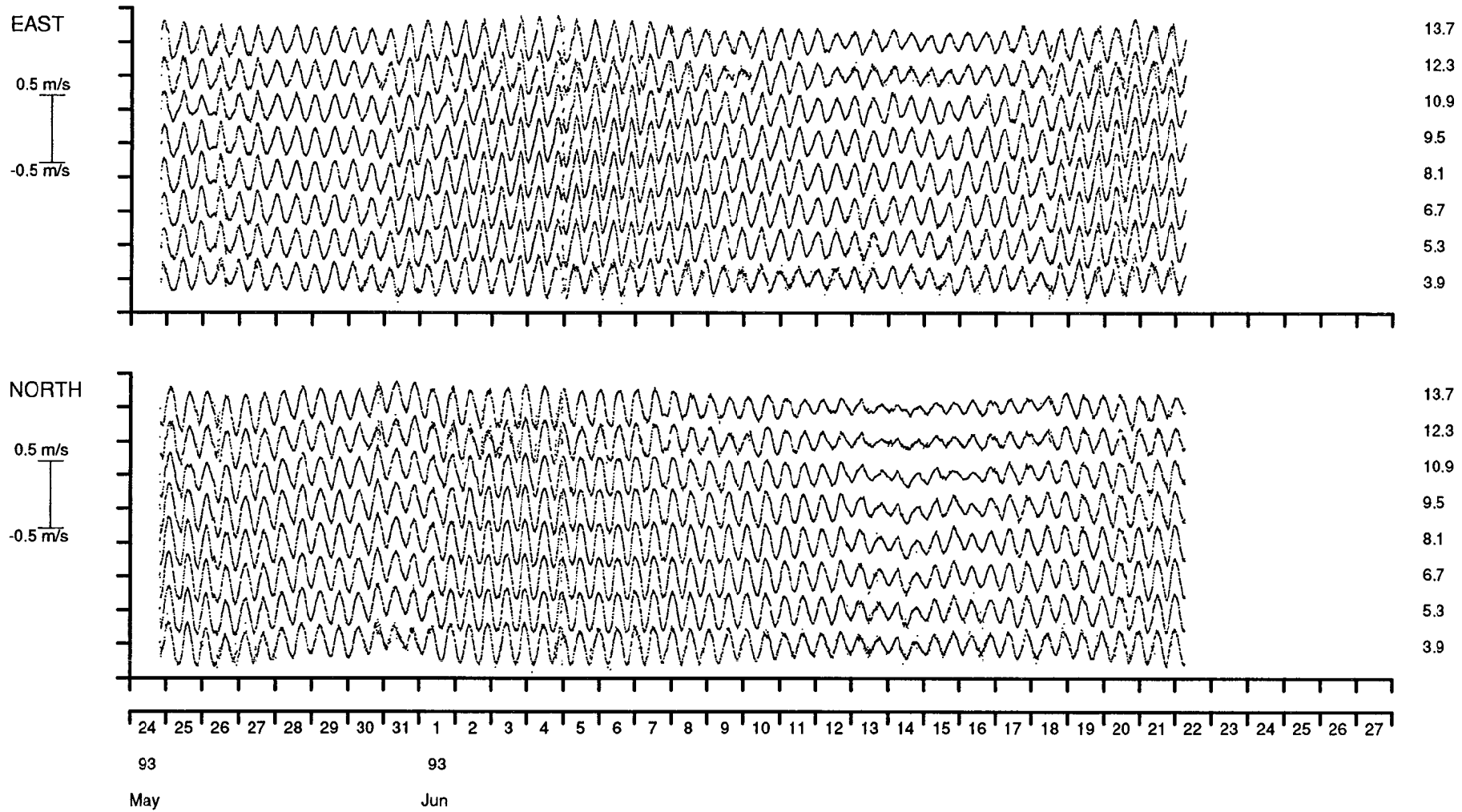
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00562 Depth of water(m) 18.0

Start/End 1993/05/24 AT 19:40:00 1993/06/22 AT 06:20:00

Position 54 07.52N 03 27.27W 3.90 Base Ht 1.40 Gap Ht

Bin Ht (m)



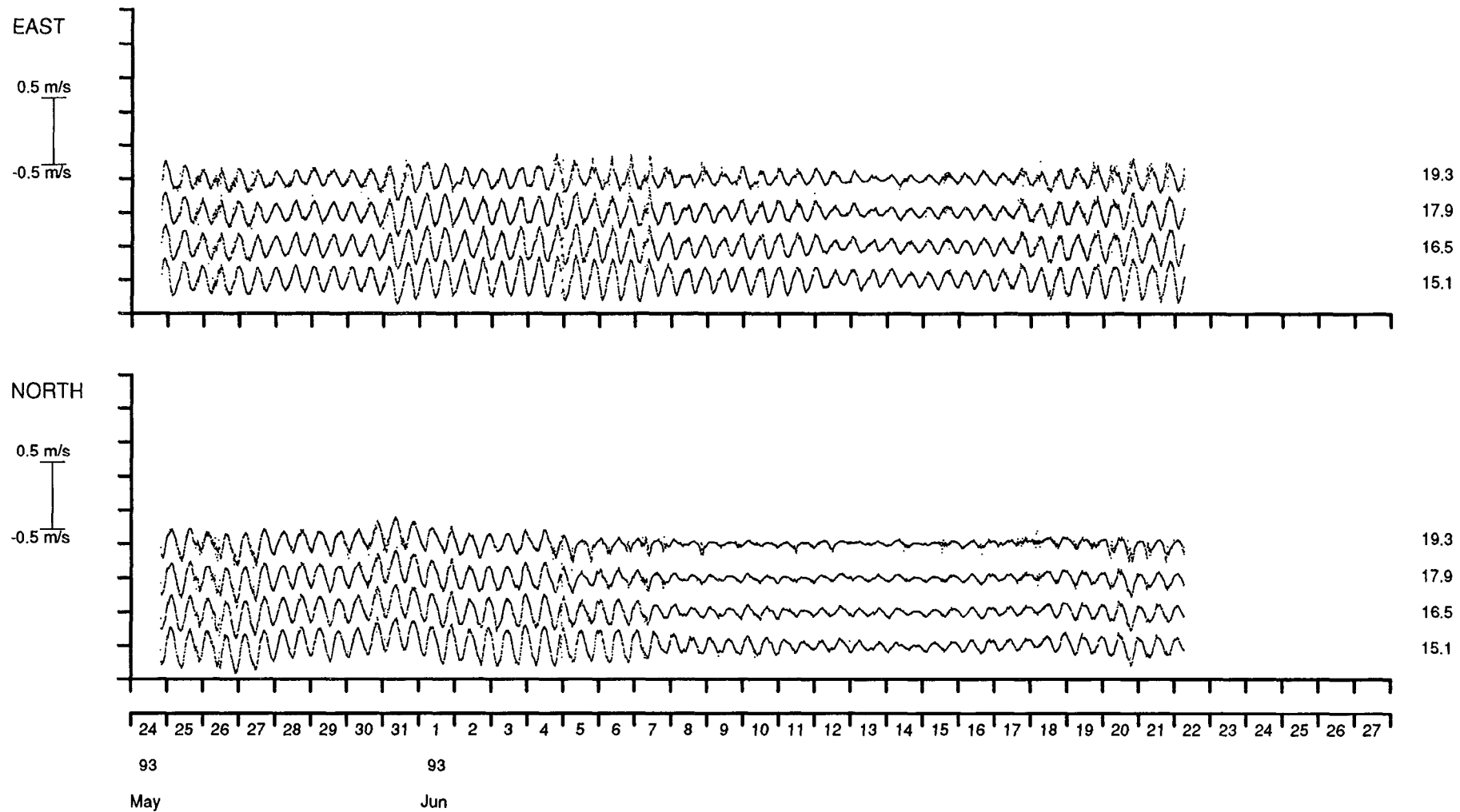
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00562 Depth of water(m) 18.0

Start/End 1993/05/24 AT 19:40:00 1993/06/22 AT 06:20:00

Position 54 07.52N 03 27.27W 3.90 Base Ht 1.40 Gap Ht

Bin Ht (m)

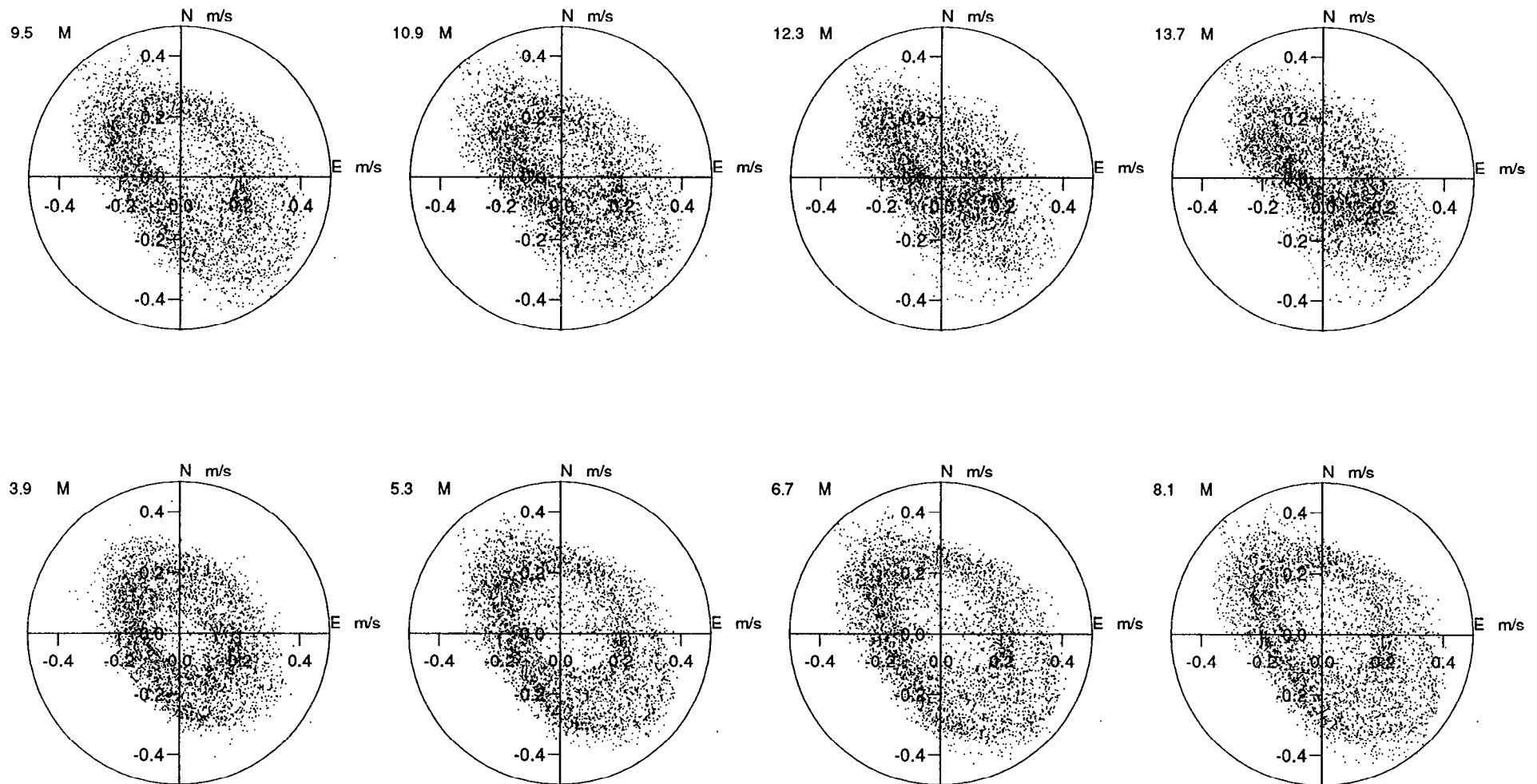


# SCATTER PLOT

Meter no. 0010 Rig no. 00562 Depth of water(m) 18.0

Start/End 1993/05/24 AT 19:40:00 1993/06/22 AT 06:20:00

Position 54 07.52N 03 27.27W 3.90 Base Ht 1.40 Gap Ht

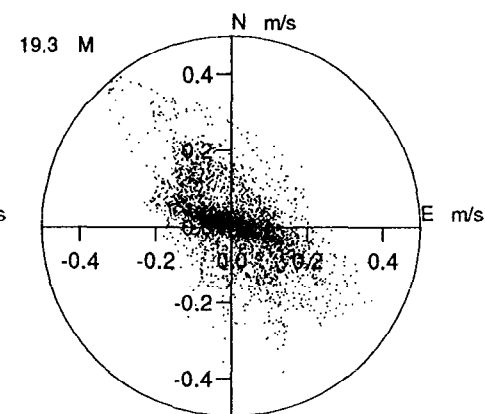
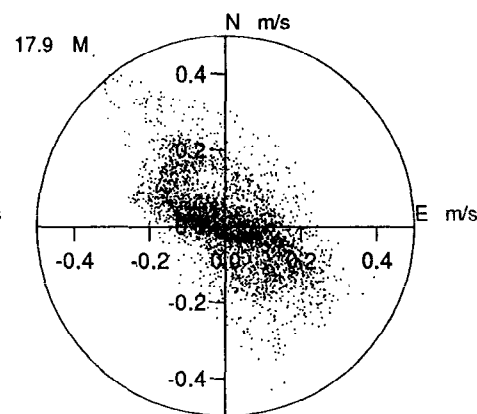
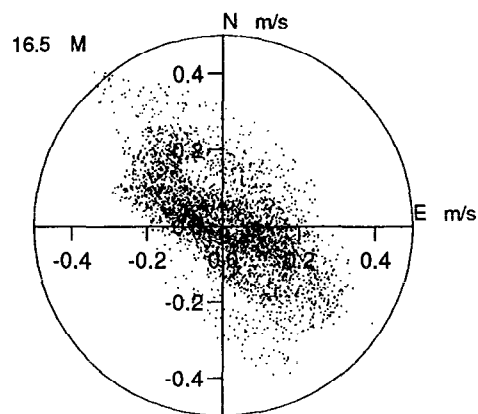
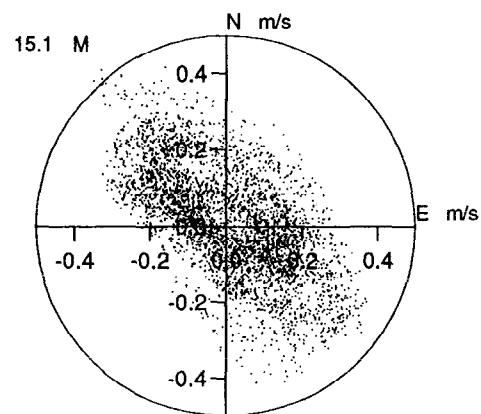


# SCATTER PLOT

Meter no. 0010 Rig no. 00562 Depth of water(m) 18.0

Start/End 1993/05/24 AT 19:40:00 1993/06/22 AT 06:20:00

Position 54 07.52N 03 27.27W 3.90 Base Ht 1.40 Gap Ht



# STICK TIME SERIES PLOT

Meter no. 0010 Rig no. 00562 Depth of water(m) 18.0

Start/End 1993/05/24 AT 19:40:00 1993/06/22 AT 06:20:00

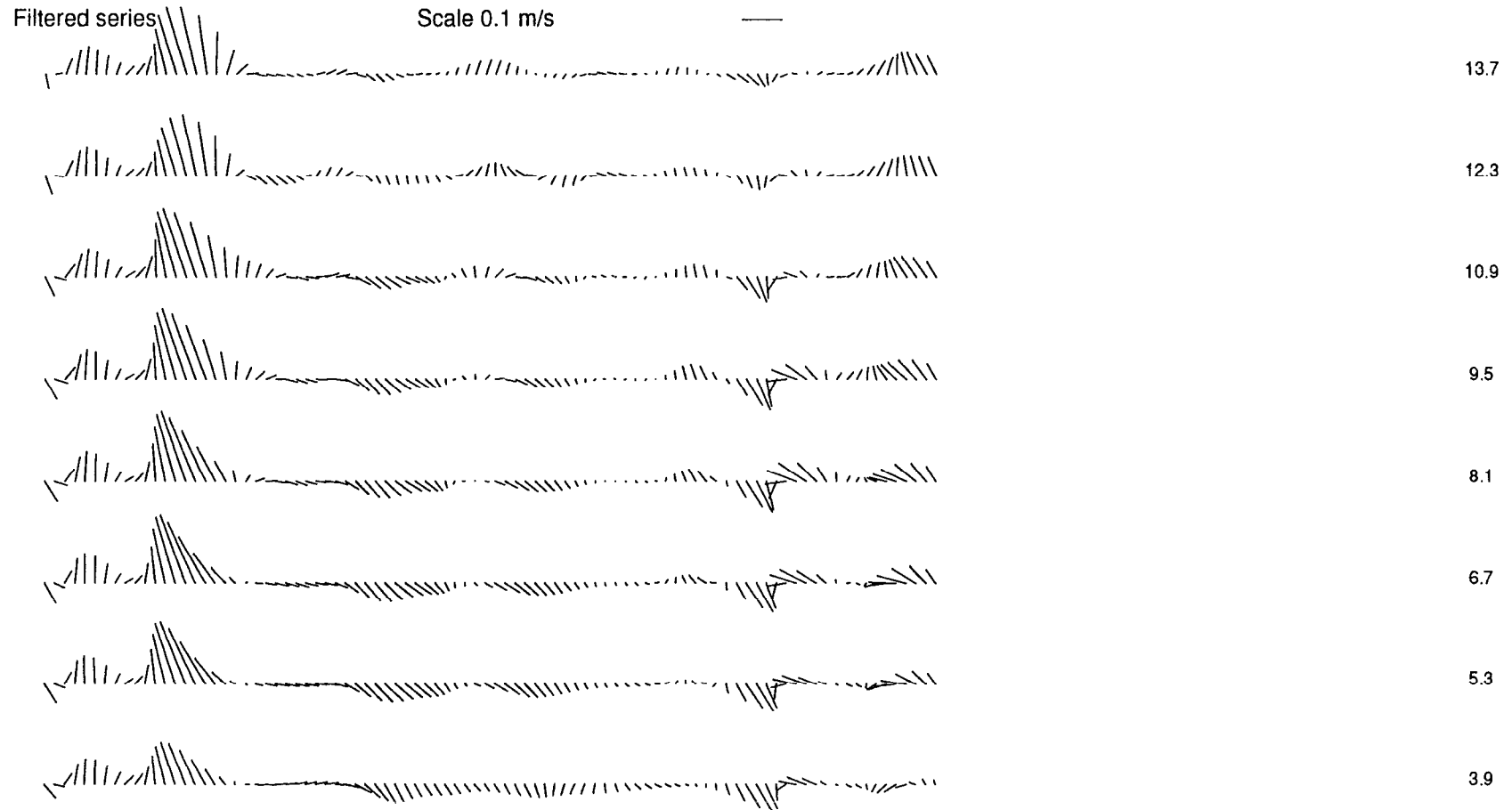
Position 54 07.52N 03 27.27W 3.90 Base Ht 1.40 Gap Ht

Bin Ht (m)

Filtered series

Scale 0.1 m/s

—



27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

93

93

May

Jun

# STICK TIME SERIES PLOT

Meter no. 0010 Rig no. 00562 Depth of water(m) 18.0

Start/End 1993/05/24 AT 19:40:00 1993/06/22 AT 06:20:00

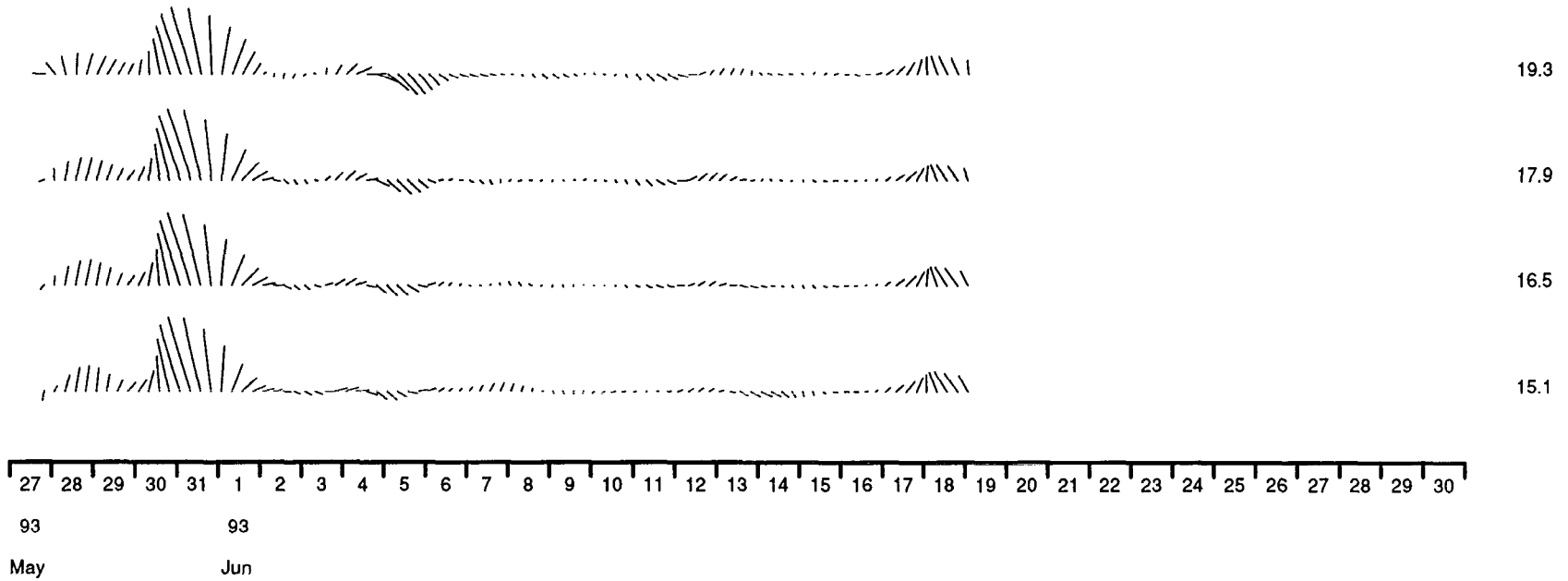
Position 54 07.52N 03 27.27W 3.90 Base Ht 1.40 Gap Ht

Filtered series

Scale 0.1 m/s

—

Bin Ht (m)



## Statistics for dp0010.00562

### Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.014	129.0	0.0308	-38.7	0.0144	51.3
2	5.3	0.014	125.0	0.0441	-42.8	0.0188	47.2
3	6.7	0.010	123.8	0.0488	-43.6	0.0202	46.4
4	8.1	0.008	100.0	0.0500	-44.3	0.0192	45.7
5	9.5	0.009	64.8	0.0479	-45.4	0.0165	44.6
6	10.9	0.012	51.5	0.0409	-46.0	0.0126	44.0
7	12.3	0.008	-0.4	0.0330	-45.6	0.0094	44.4
8	13.7	0.010	18.6	0.0369	-46.6	0.0090	43.4
9	15.1	0.011	30.8	0.0330	-47.6	0.0072	42.4
10	16.5	0.011	32.5	0.0255	-47.8	0.0053	42.2
11	17.9	0.010	31.5	0.0190	-48.2	0.0041	41.8
12	19.3	0.010	31.1	0.0148	-48.9	0.0036	41.1

## Statistics for dp0010.00562

### Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.007	106.1	0.0013	-22.5	0.0003	67.5
2	5.3	0.005	62.8	0.0023	-31.8	0.0004	58.2
3	6.7	0.006	21.6	0.0026	-31.3	0.0004	58.7
4	8.1	0.010	8.6	0.0027	-28.4	0.0004	61.6
5	9.5	0.016	11.8	0.0025	-24.4	0.0003	65.6
6	10.9	0.019	16.0	0.0022	-21.3	0.0002	68.7
7	12.3	0.016	4.8	0.0015	-12.6	0.0002	77.4
8	13.7	0.020	13.3	0.0017	-15.0	0.0002	75.0
9	15.1	0.021	20.1	0.0018	-16.3	0.0002	73.7
10	16.5	0.019	21.2	0.0017	-15.7	0.0002	74.3
11	17.9	0.018	21.2	0.0017	-16.1	0.0002	73.9
12	19.3	0.017	24.5	0.0018	-16.4	0.0002	73.6



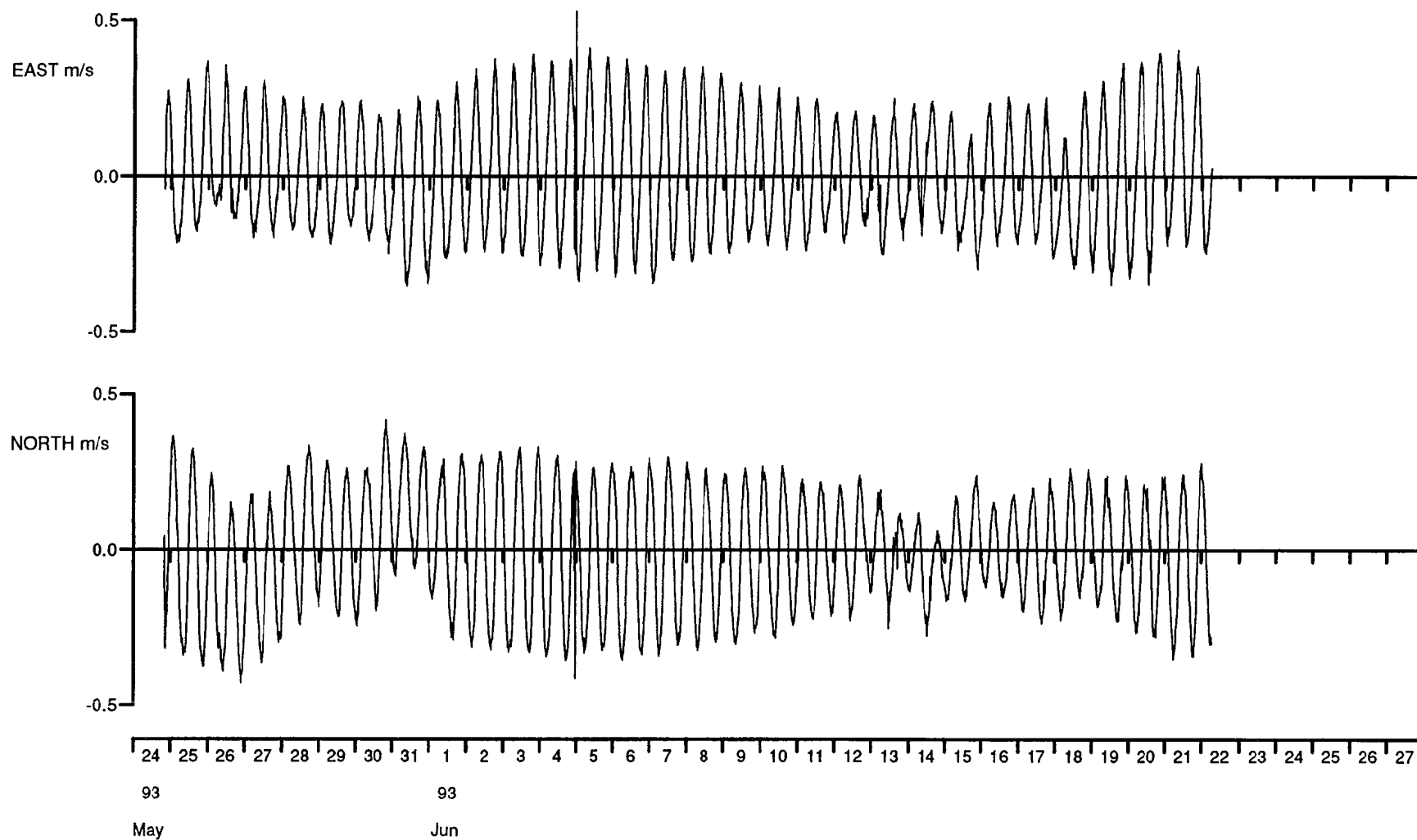
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00562 Depth of water(m) 18.0

Start/End 1993/05/24 AT 19:40:00 1993/06/22 AT 06:20:00

Position 54 07.52N 03 27.27W 3.90 Base Ht 1.40 Gap Ht 6.7 Bin Ht (m)

Bin closest to depth average



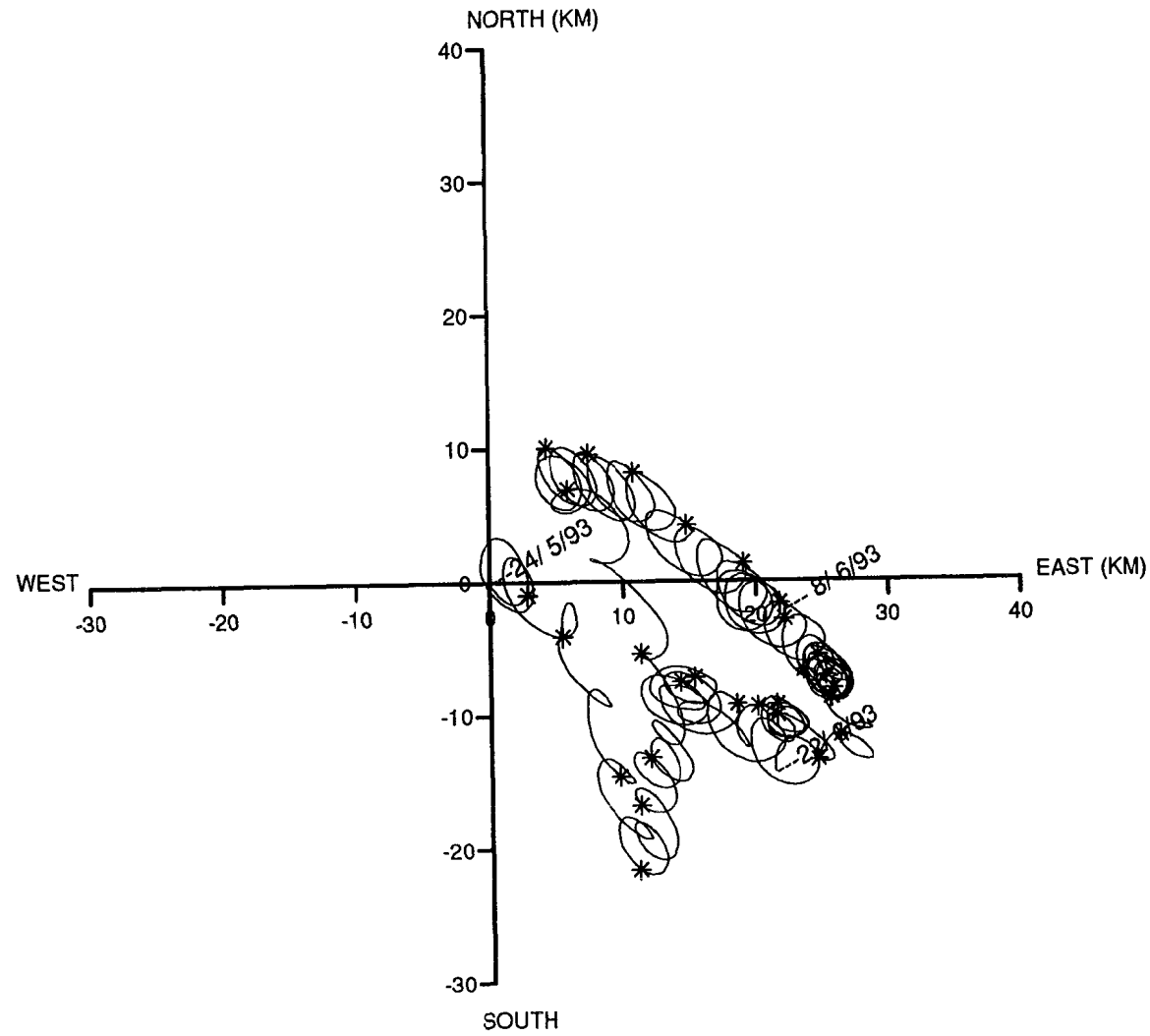
# VECTOR PLOT

Meter no. 0010 Rig no. 00562 Depth of water(m) 18.0

Start/End 1993/05/24 AT 19:40:00 1993/06/22 AT 06:20:00

Position 54 07.52N 03 27.27W 3.90 Base Ht 1.40 Gap Ht 6.7 Bin Ht (m)

Bin closest to depth average



## Statistics for dp0010.00562s3

Doppler bin number 3

	Mean	Variance	Standard deviation
Eastings	0.0087	0.33807021E-01	0.18386684E+00
Northings	-0.0058	0.35244290E-01	0.18773462E+00
Speed	0.2495	0.68835472E-02	0.82967147E-01
Vector mean speed	0.0104		
Vector Mean Direction	123.8		

### Maximum ten values

Eastings					Northings				
0.528	0.411	0.407	0.397	0.396	0.419	0.401	0.393	0.386	0.380
0.395	0.393	0.392	0.391	0.390	0.380	0.380	0.372	0.372	0.369

### Minimum ten values

Eastings					Northings				
-0.335	-0.335	-0.339	-0.339	-0.340	-0.392	-0.393	-0.394	-0.396	-0.397
-0.341	-0.343	-0.344	-0.345	-0.350	-0.398	-0.402	-0.404	-0.413	-0.428

### Maximum speeds

0.601	0.499	0.494	0.487	0.481	0.476	0.473	0.469	0.467	0.465
0.465	0.462	0.460	0.459	0.459	0.459	0.458	0.457	0.457	0.456
0.453	0.452	0.452	0.452	0.449	0.449	0.448	0.448	0.447	0.446
0.446	0.446	0.446	0.445	0.445	0.444	0.444	0.444	0.443	0.443
0.443	0.443	0.443	0.443	0.442	0.441	0.441	0.441	0.440	0.440
0.440	0.440	0.440	0.439	0.438	0.438	0.438	0.438	0.437	0.436
0.436	0.436	0.436	0.436	0.435	0.434	0.434	0.434	0.434	0.434
0.433	0.433	0.433	0.433	0.432	0.431	0.431	0.430	0.430	0.428
0.427	0.427	0.427	0.427	0.426	0.425	0.425	0.424	0.423	0.423
0.423	0.423	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422

### Variance ellipse statistics

Maximum variance	0.4884E-01	Direction	-43.6
Minimum variance	0.2022E-01	Direction	46.4
Total variance	0.6905E-01	Ratio of variances	0.4140E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		11.3	
Average direction. maxdir +PI/2 to maxdir -PI/2		181.3	

# Filtered Statistics for dp0010.00562s3f

Doppler bin number 3

	Mean	Variance	Standard deviation
Eastings	0.0022	0.10319959E-02	0.32124694E-01
Northings	0.0054	0.20324048E-02	0.45082197E-01
Speed	0.0431	0.12174943E-02	0.34892607E-01
Vector mean speed	0.0058		
Vector Mean Direction	21.6		

## Maximum ten values

Eastings					Northings				
0.045	0.044	0.043	0.042	0.041	0.166	0.159	0.148	0.130	0.113
0.040	0.040	0.038	0.037	0.037	0.088	0.072	0.071	0.065	0.058

## Minimum ten values

Eastings					Northings				
-0.052	-0.054	-0.061	-0.062	-0.066	-0.036	-0.040	-0.041	-0.042	-0.044
-0.066	-0.066	-0.069	-0.069	-0.072	-0.046	-0.050	-0.061	-0.064	-0.071

## Maximum speeds

0.177	0.167	0.163	0.134	0.130	0.090	0.089	0.083	0.075	0.073
0.073	0.071	0.070	0.069	0.068	0.068	0.065	0.061	0.060	0.059
0.058	0.058	0.058	0.057	0.057	0.054	0.052	0.051	0.050	0.050
0.047	0.047	0.047	0.046	0.045	0.045	0.044	0.043	0.042	0.041
0.041	0.039	0.036	0.035	0.034	0.034	0.033	0.033	0.033	0.033
0.032	0.030	0.030	0.030	0.030	0.029	0.028	0.028	0.027	0.025
0.024	0.024	0.024	0.022	0.022	0.021	0.020	0.019	0.019	0.018
0.018	0.015	0.013	0.013	0.012	0.010	0.010	0.009	0.009	0.009
0.009	0.009	0.009	0.009	0.008	0.007	0.007	0.007	0.007	0.005

## Variance ellipse statistics

Maximum variance	0.2622E-02	Direction	-31.3
Minimum variance	0.4429E-03	Direction	58.7
Total variance	0.3064E-02	Ratio of variances	0.1689E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		5.9	
Average direction. maxdir +PI/2 to maxdir -PI/2		162.6	

**Rig information details for 00565**

Position Latitude	:	54 07.15N
Position Longitude	:	03 26.94W
Water depth	:	25.0 m
Deployed on cruise	:	P.Madog
Recovered on cruise	:	Brand'g
Site name identification	:	Y
Magnetic deviation	:	6.5 degrees west
Rig deployed on	:	22-JUN-93 13:20:00
Rig recovered on	:	06-AUG-93 09:00:00
Period of deployment	:	44.8 days
Comments	:	None

**Meter information details for 0568**

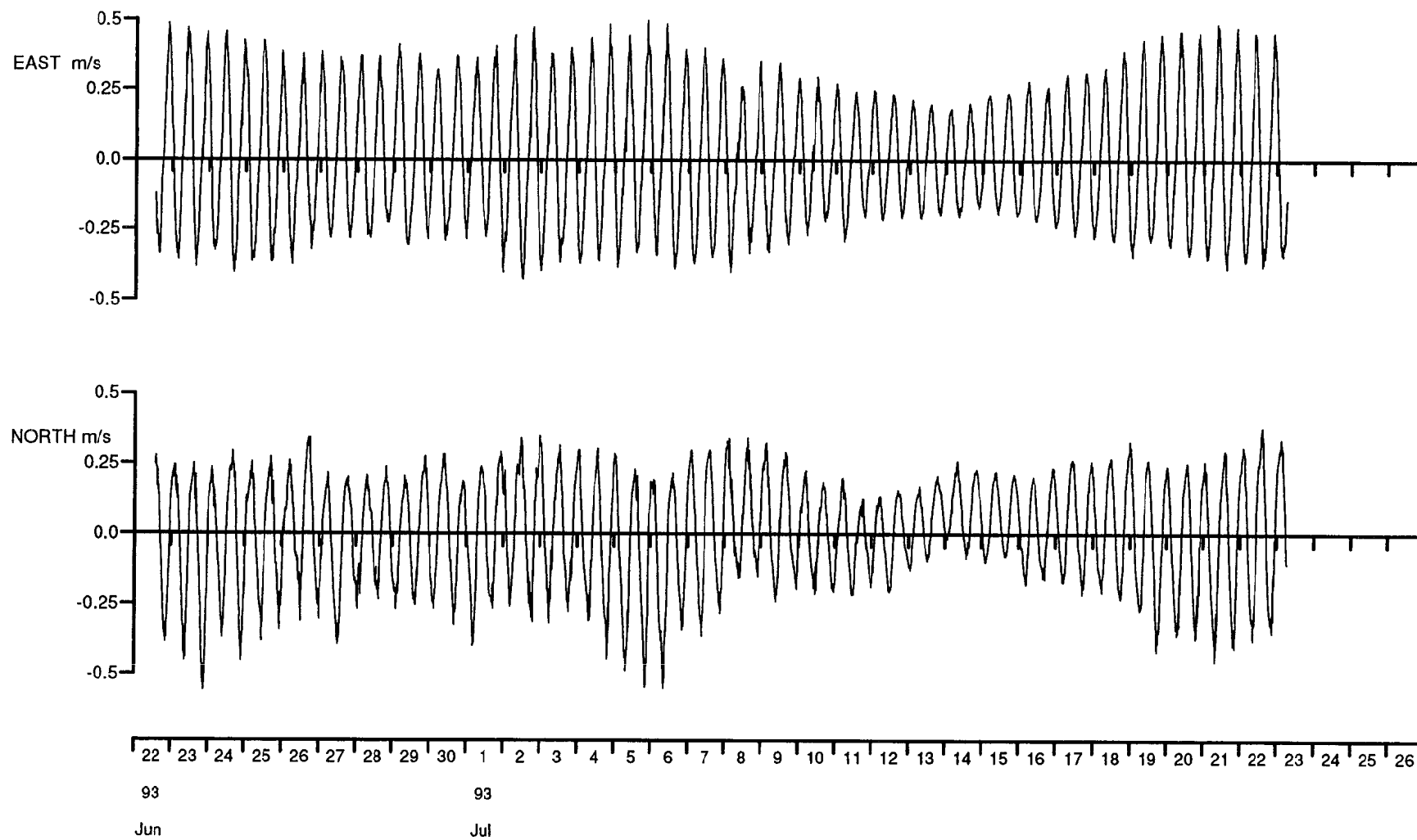
Rig No	:	00565
Meter No	:	0568
Recording interval	:	600.0 seconds
Meter height from bottom	:	10.5 m
Position of meter on rig	:	T
Meter type	:	AA
Meter started	:	21-JUN-93 18:00:00
Time of last valid scan	:	10-AUG-93 10:30:00
Period of good data	:	30.7 days      short record
Total number of scans	:	4421
Timing error	:	None
Comments	:	Current meter speed fails 23 Aug (0630) onwards.

# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0568 Rig no. 00565 Depth of water(m) 25.0

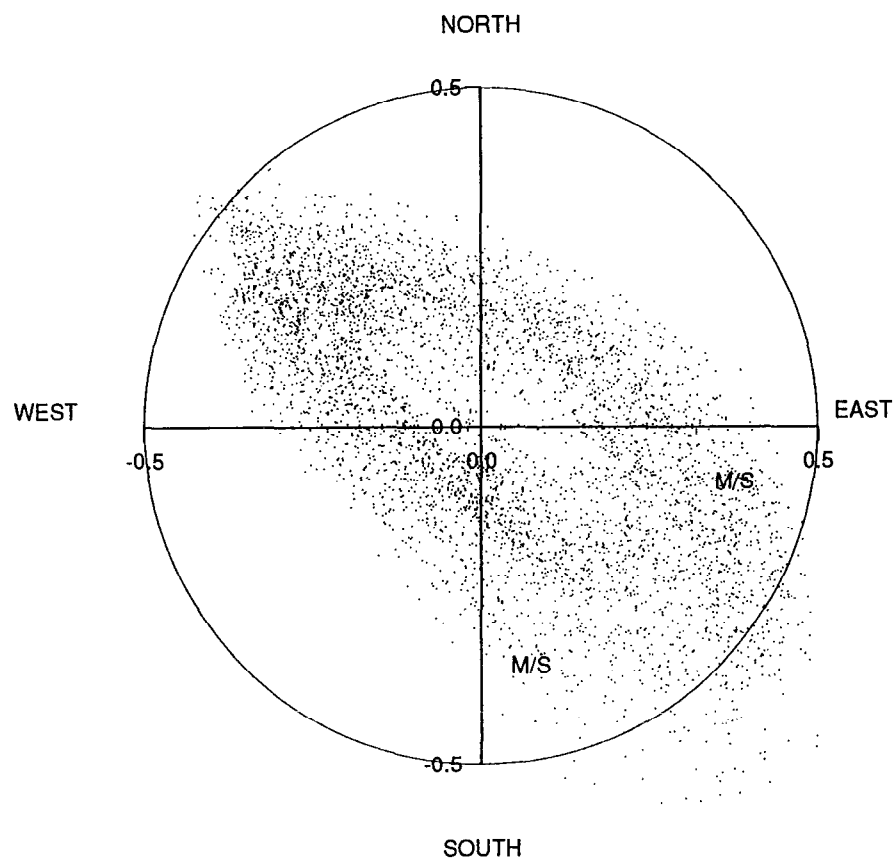
Start/End 1993/06/22 AT 13:20:00 1993/07/23 AT 06:20:00

Position 54 07.15N 03 26.94W Meter Height(m) 10.5



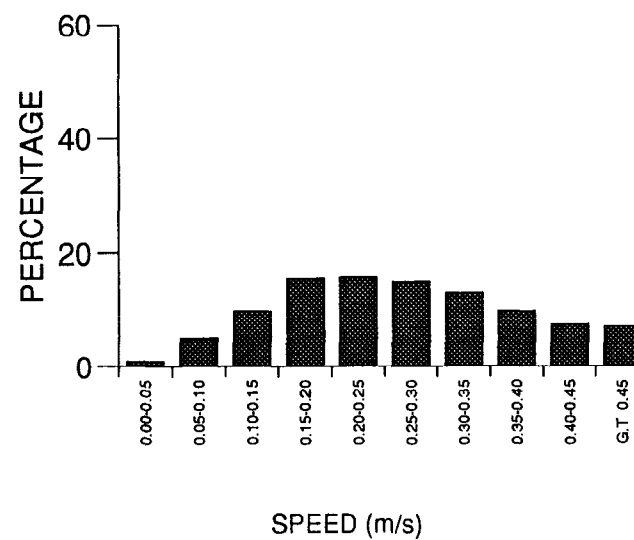
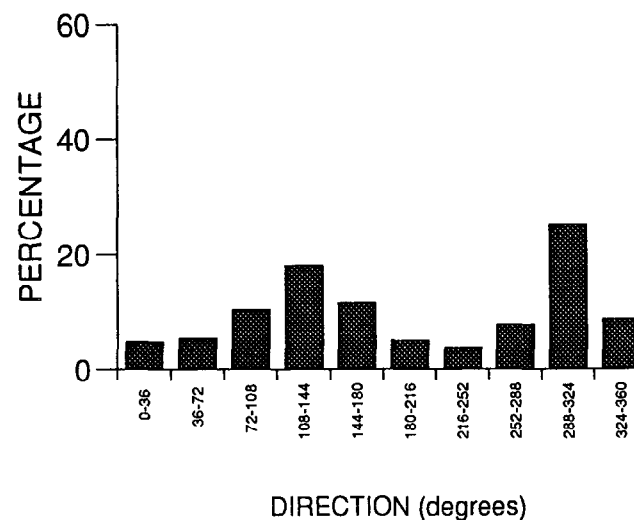
# SCATTER PLOT

Meter no. 0568 Rig no. 00565 Depth of water(m) 25.0  
 Start/End 1993/06/22 AT 13:20:00 1993/07/23 AT 06:20:00  
 Position 54 07.15N 03 26.94W Meter Height(m) 10.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0568 Rig no. 00565 Depth of water(m) 25.0  
 Start/End 1993/06/22 AT 13:20:00 1993/07/23 AT 06:20:00  
 Position 54 07.15N 03 26.94W Meter Height(m) 10.5



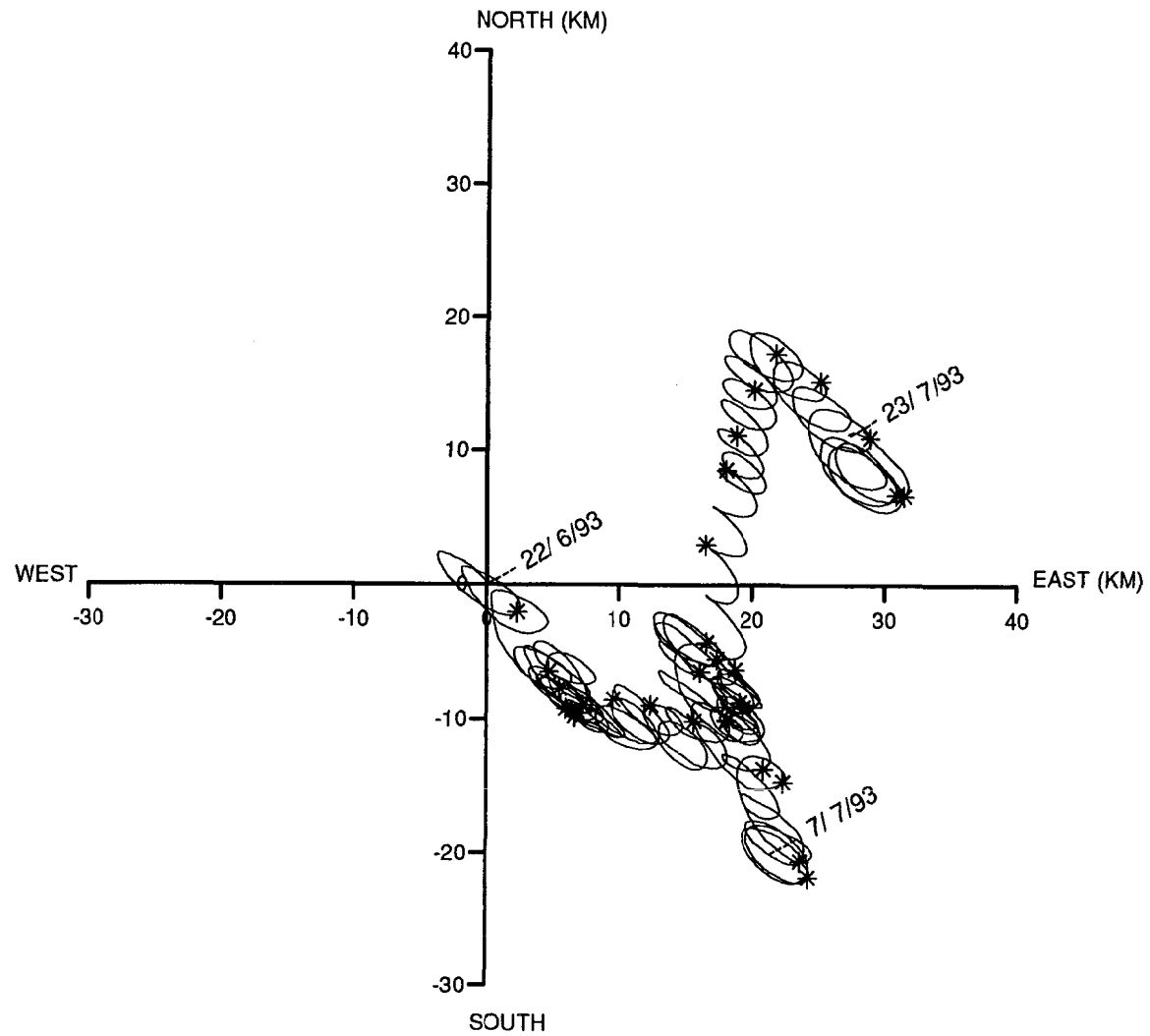


# VECTOR PLOT

Meter no. 0568 Rig no. 00565 Depth of water(m) 25.0

Start/End 1993/06/22 AT 13:20:00 1993/07/23 AT 06:20:00

Position 54 07.15N 03 26.94W Meter Height(m) 10.5

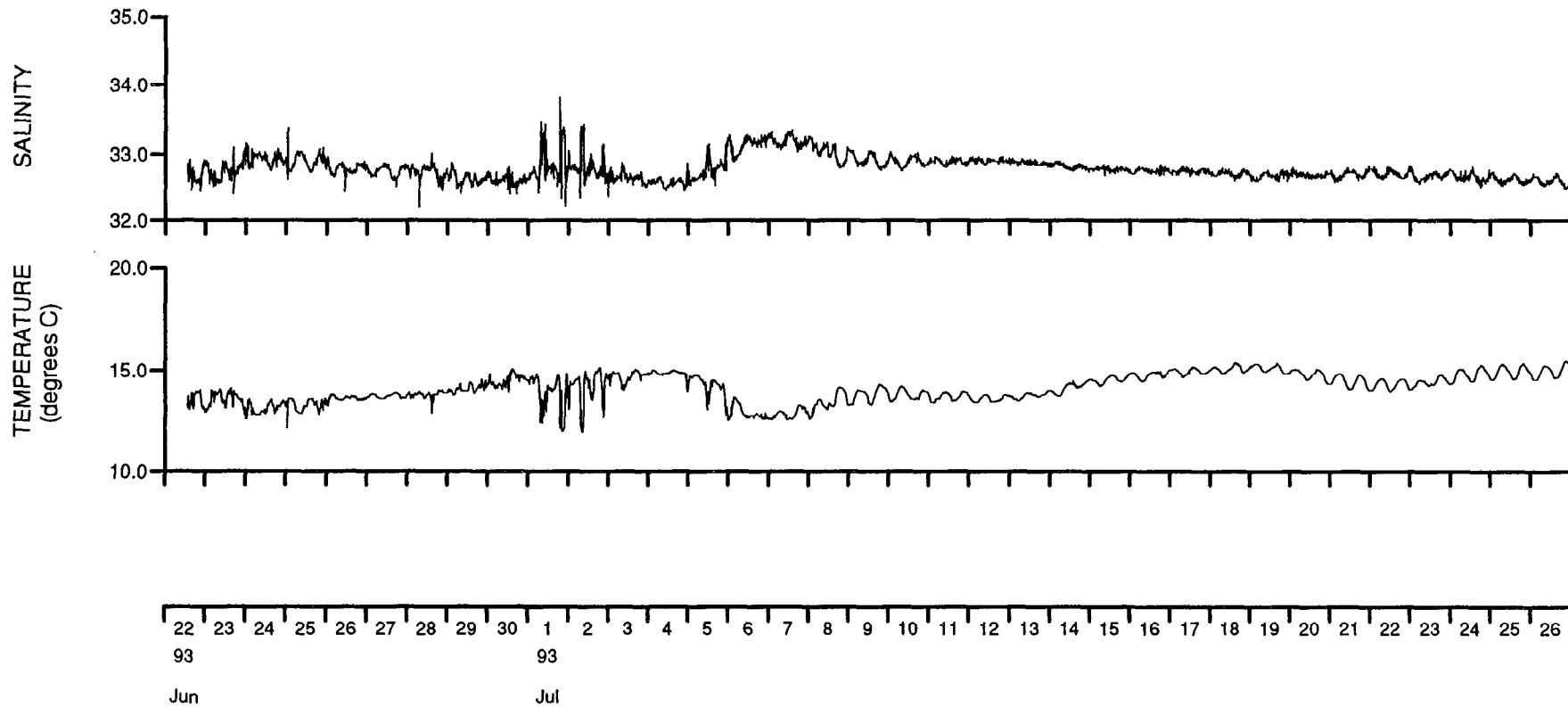


# TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 0568 Rig no. 00565 Depth of water(m) 25.0

Start/End 1993/06/22 AT 13:20:00 1993/08/06 AT 09:00:00

Position 54 07.15N 03 26.94W Meter Height(m) 10.5

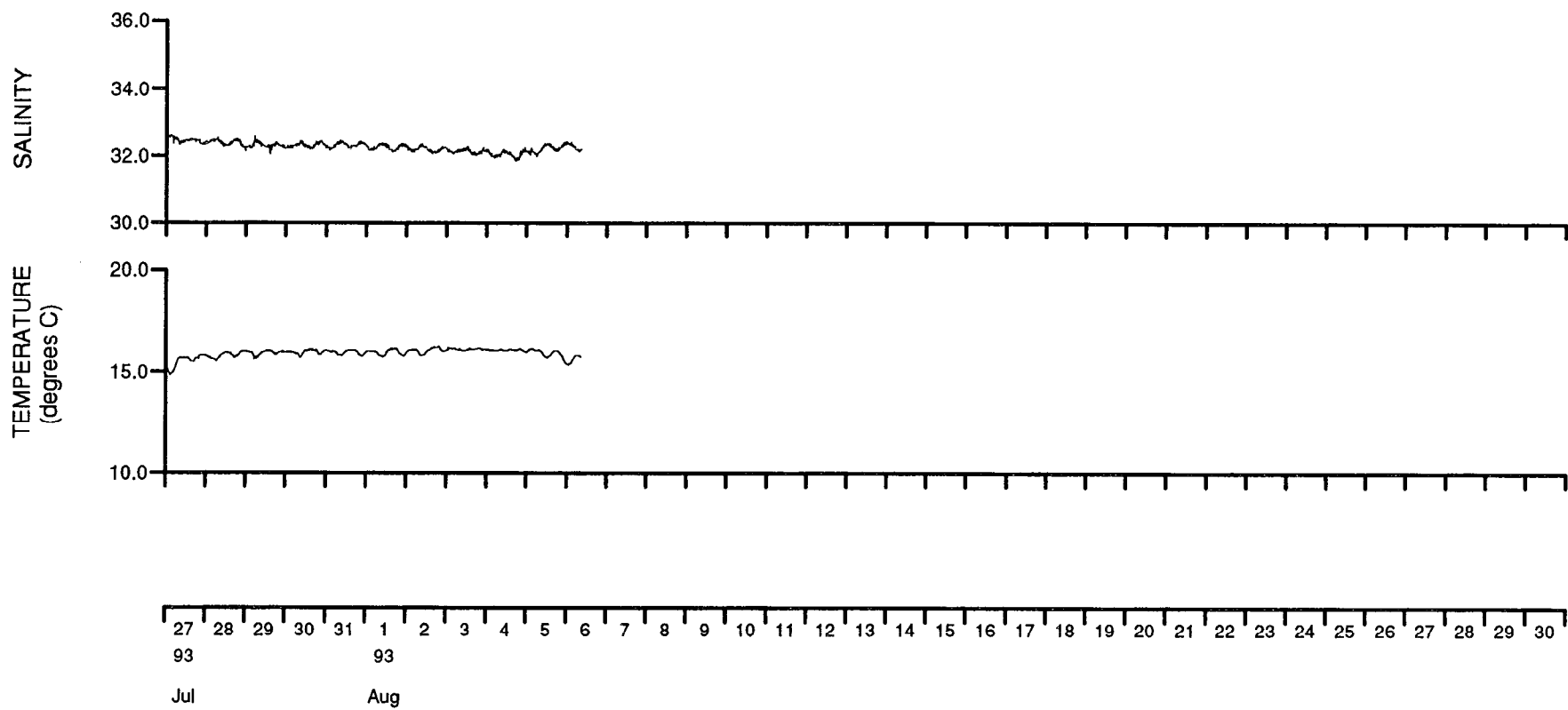


# TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 0568 Rig no. 00565 Depth of water(m) 25.0

Start/End 1993/06/22 AT 13:20:00 1993/08/06 AT 09:00:00

Position 54 07.15N 03 26.94W Meter Height(m) 10.5



# Statistics for aa0568t.00565s

	Mean	Variance	Standard deviation
Eastings	0.0102	0.50883625E-01	0.22557400E+00
Northings	0.0042	0.34801200E-01	0.18655080E+00
Speed	0.2686	0.13636856E-01	0.11677695E+00
Vector mean speed	0.0111		
Vector Mean Direction	67.6		

## Maximum ten values

Eastings					Northings				
0.497	0.497	0.488	0.487	0.487	0.379	0.377	0.357	0.349	0.346
0.484	0.480	0.479	0.476	0.476	0.342	0.342	0.341	0.340	0.339

## Minimum ten values

Eastings					Northings				
-0.399	-0.400	-0.401	-0.402	-0.402	-0.522	-0.523	-0.527	-0.527	-0.530
-0.412	-0.418	-0.418	-0.421	-0.425	-0.544	-0.547	-0.551	-0.555	-0.557

## Maximum speeds

0.687	0.679	0.676	0.665	0.651	0.651	0.648	0.642	0.642	0.639
0.637	0.634	0.631	0.628	0.625	0.625	0.617	0.614	0.600	0.597
0.597	0.597	0.586	0.583	0.581	0.578	0.578	0.578	0.575	0.575
0.572	0.572	0.569	0.569	0.569	0.567	0.567	0.564	0.564	0.561
0.561	0.558	0.558	0.558	0.555	0.555	0.555	0.550	0.550	0.550
0.550	0.547	0.547	0.547	0.547	0.547	0.547	0.544	0.544	0.544
0.541	0.541	0.539	0.539	0.539	0.539	0.539	0.539	0.536	0.536
0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.536	0.533	0.533
0.533	0.533	0.530	0.530	0.530	0.530	0.527	0.527	0.525	0.525
0.525	0.525	0.525	0.525	0.525	0.525	0.522	0.522	0.522	0.522

## Variance ellipse statistics

Maximum variance	0.7251E-01	Direction	-52.9
Minimum variance	0.1317E-01	Direction	37.1
Total variance	0.8568E-01	Ratio of variances	0.1816E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		10.7	
Average direction. maxdir +PI/2 to maxdir -PI/2		179.5	

# Filtered Statistics for aa0568t.00565sf

	Mean	Variance	Standard deviation
Eastings	0.0083	0.31851028E-03	0.17846856E-01
Northings	0.0107	0.21026067E-02	0.45854189E-01
Speed	0.0429	0.74653304E-03	0.27322758E-01
Vector mean speed	0.0135		
Vector Mean Direction	37.8		

## Maximum ten values

Eastings					Northings				
0.060	0.059	0.049	0.044	0.042	0.098	0.095	0.093	0.084	0.080
0.041	0.039	0.039	0.037	0.034	0.076	0.075	0.075	0.071	0.067

## Minimum ten values

Eastings					Northings				
-0.010	-0.010	-0.014	-0.015	-0.016	-0.046	-0.048	-0.053	-0.067	-0.073
-0.018	-0.018	-0.026	-0.026	-0.029	-0.086	-0.097	-0.101	-0.109	-0.109

## Maximum speeds

0.125	0.124	0.112	0.106	0.099	0.096	0.094	0.092	0.084	0.081
0.081	0.080	0.076	0.075	0.073	0.071	0.070	0.069	0.063	0.062
0.062	0.061	0.060	0.058	0.058	0.056	0.056	0.056	0.055	0.052
0.050	0.048	0.048	0.048	0.048	0.046	0.046	0.044	0.043	0.043
0.042	0.042	0.041	0.041	0.040	0.040	0.040	0.039	0.039	0.038
0.038	0.037	0.036	0.036	0.034	0.033	0.031	0.030	0.030	0.029
0.029	0.029	0.028	0.028	0.028	0.027	0.027	0.027	0.026	0.026
0.025	0.024	0.022	0.022	0.022	0.021	0.021	0.021	0.021	0.021
0.020	0.019	0.018	0.018	0.018	0.018	0.017	0.016	0.014	0.013
0.013	0.013	0.011	0.010	0.010	0.007	0.003	0.002	0.001	

## Variance ellipse statistics

Maximum variance	0.2302E-02	Direction	-17.6
Minimum variance	0.1196E-03	Direction	72.4
Total variance	0.2421E-02	Ratio of variances	0.5195E-01
Average direction. maxdir -PI/2 to maxdir +PI/2	19.7		
Average direction. maxdir +PI/2 to maxdir -PI/2	160.4		

**Meter information details for 6443**

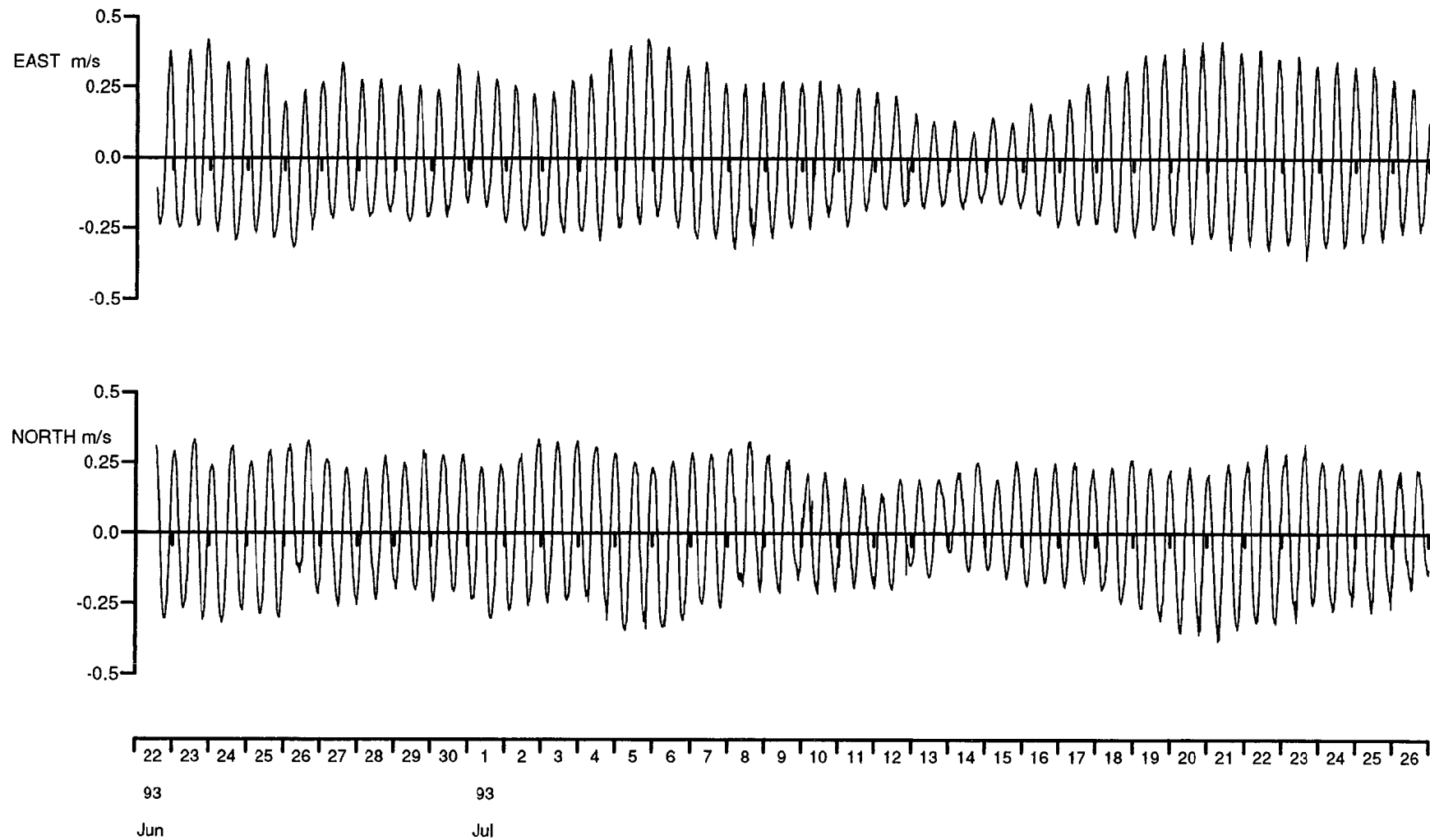
Rig No	: 00565
Meter No	: 6443
Recording interval	: 600.0 seconds
Meter height from bottom	: 3.5 m
Position of meter on rig	: B
Meter type	: AA
Meter started	: 21-JUN-93 17:50:00
Meter stopped	: 10-AUG-93 10:30:00
Period switched on	: 49.7 days
Period of good data	: 44.8 days
Total number of scans	: 6453
Timing error	: None
Comments	: Conductivity fails 22/6(1320)-24/6(0240) also 17/7(0950)-19/7(1150) and again 24/7(2020)-6/8((0900). All other conductivity data may be suspect.

# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 6443 Rig no. 00565 Depth of water(m) 25.0

Start/End 1993/06/22 AT 13:20:00 1993/08/06 AT 09:00:00

Position 54 07.15N 03 26.94W Meter Height(m) 3.5

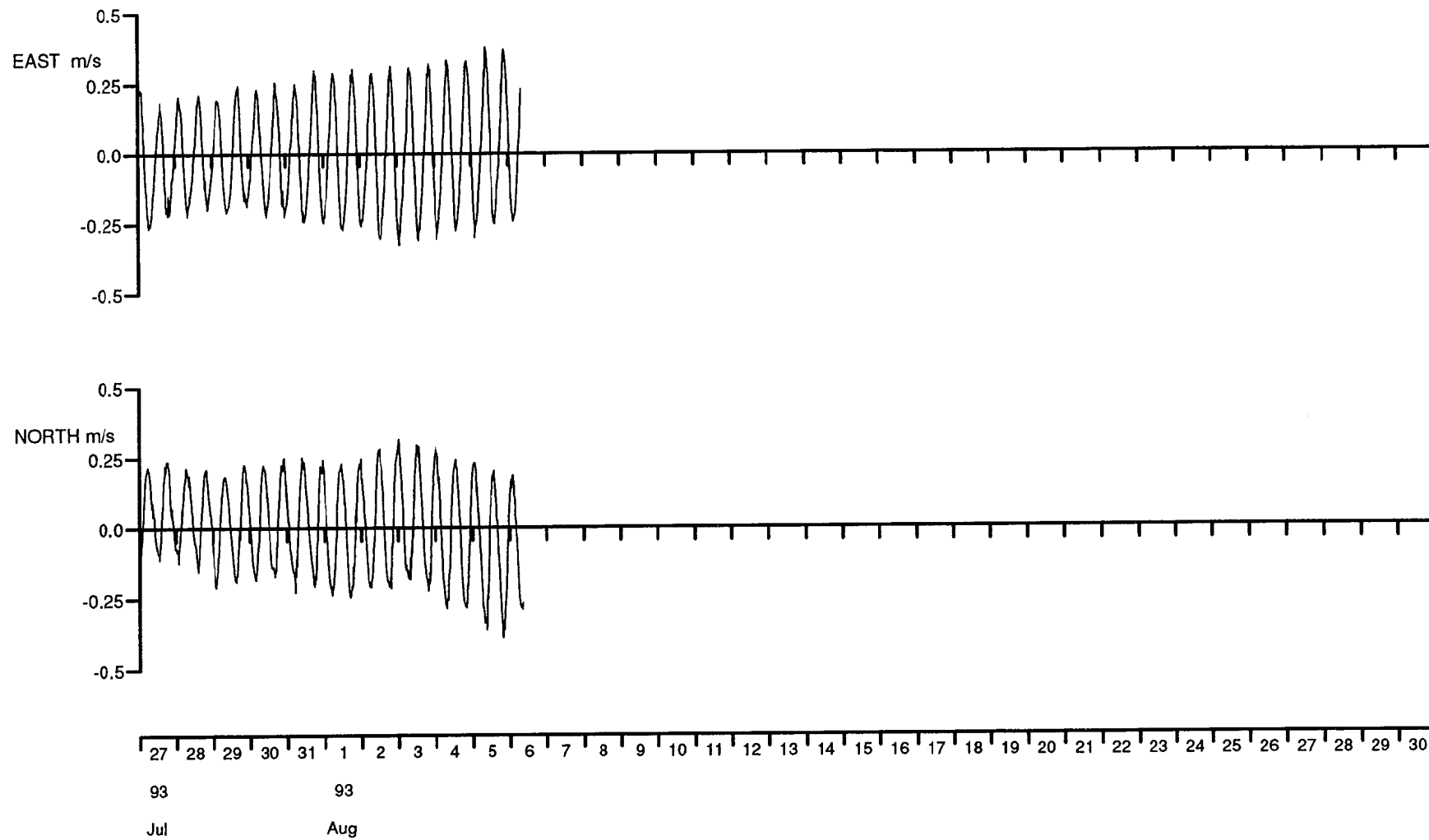


# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 6443 Rig no. 00565 Depth of water(m) 25.0

Start/End 1993/06/22 AT 13:20:00 1993/08/06 AT 09:00:00

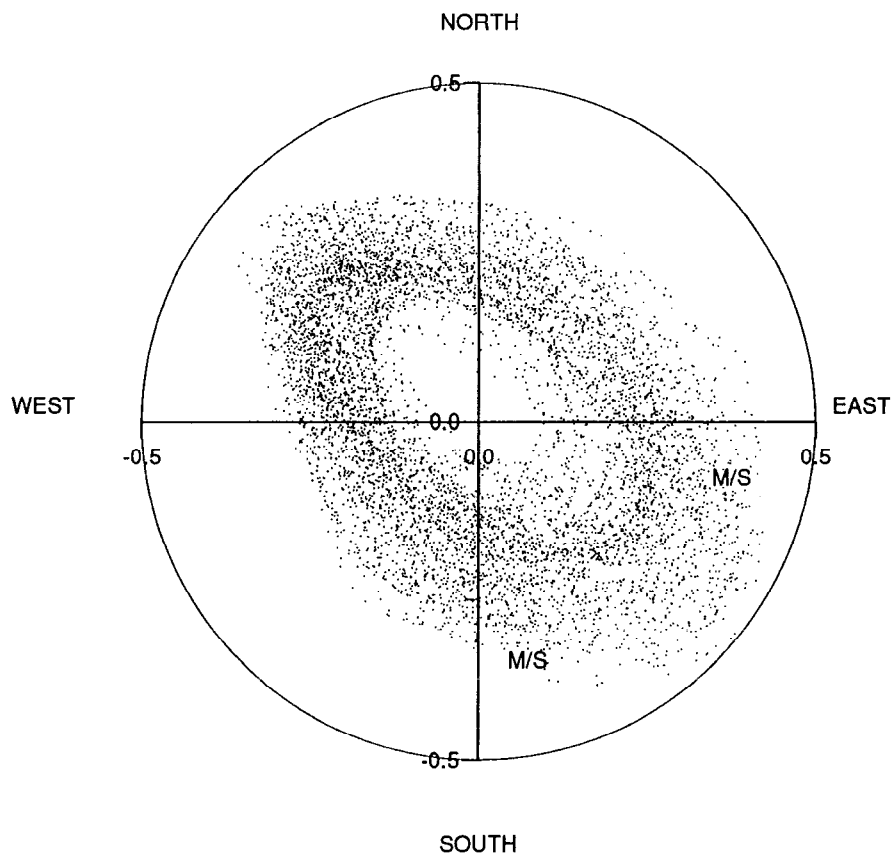
Position 54 07.15N 03 26.94W Meter Height(m) 3.5





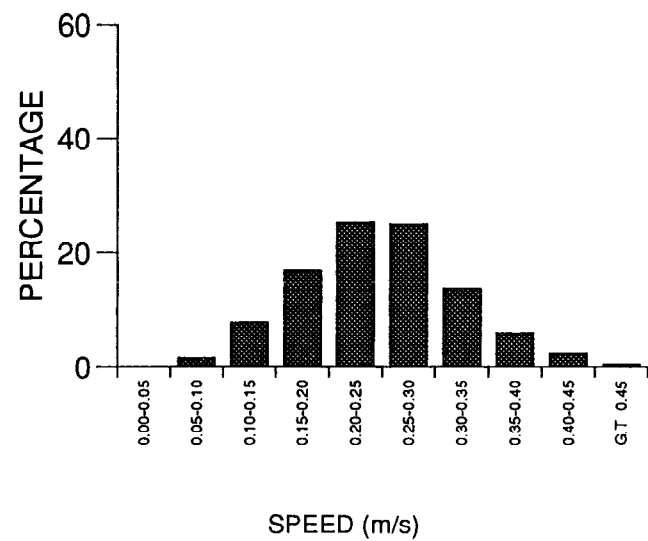
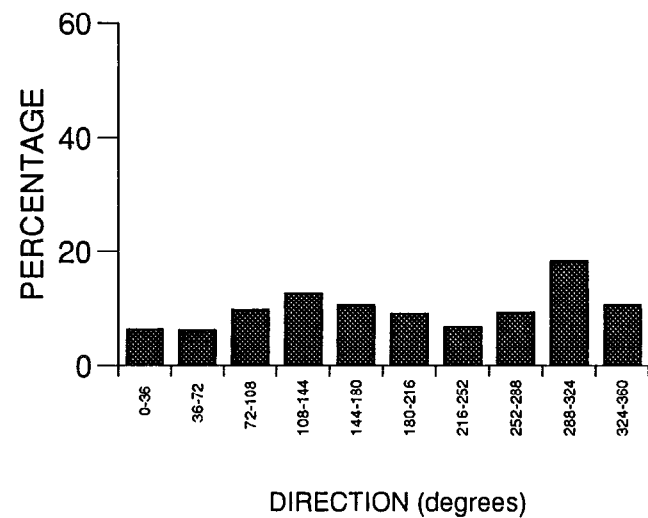
### SCATTER PLOT

Meter no. 6443 Rig no. 00565 Depth of water(m) 25.0  
Start/End 1993/06/22 AT 13:20:00 1993/08/06 AT 09:00:00  
Position 54 07.15N 03 26.94W Meter Height(m) 3.5



### HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 6443 Rig no. 00565 Depth of water(m) 25.0  
Start/End 1993/06/22 AT 13:20:00 1993/08/06 AT 09:00:00  
Position 54 07.15N 03 26.94W Meter Height(m) 3.5

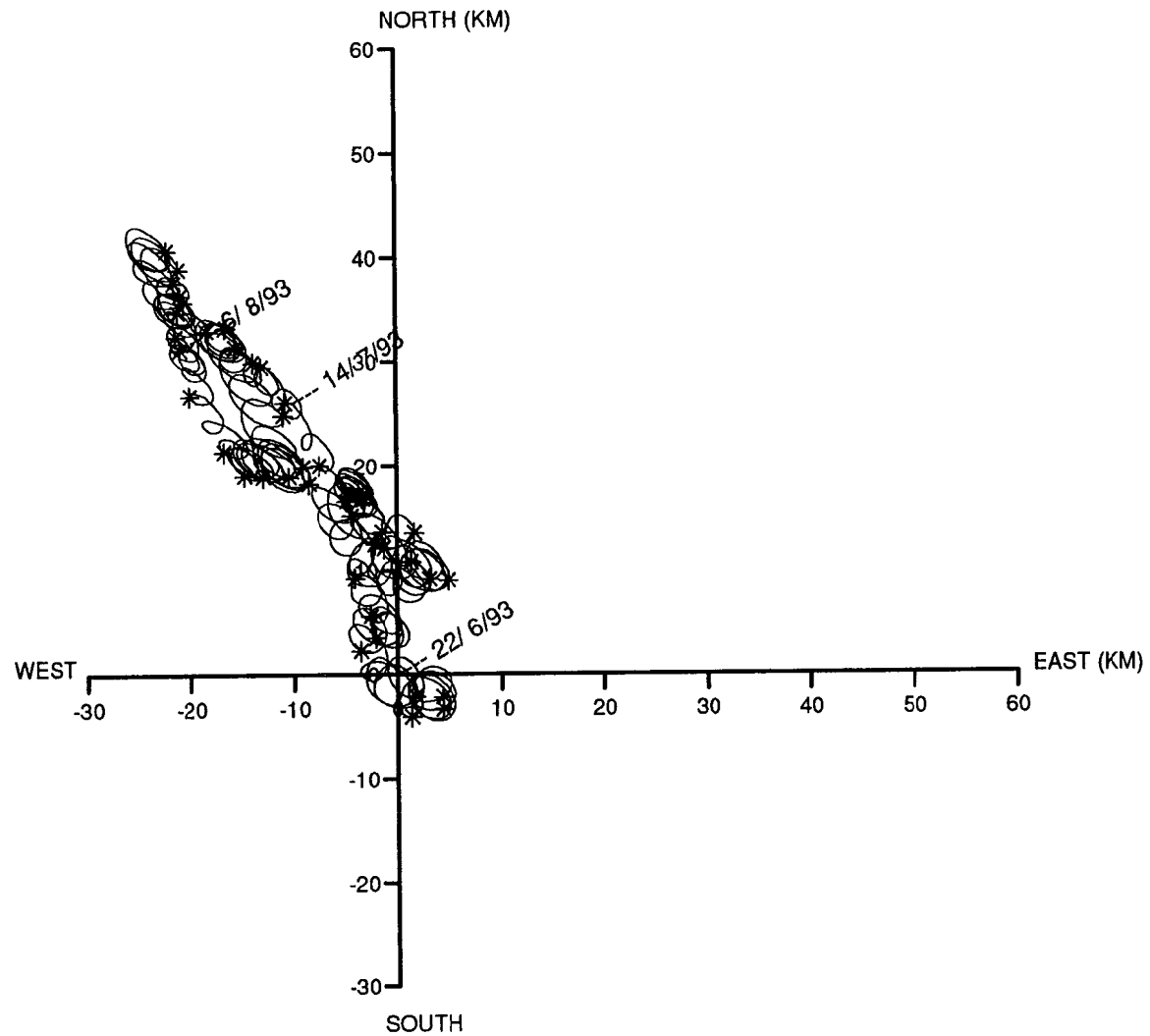


# VECTOR PLOT

Meter no. 6443 Rig no. 00565 Depth of water(m) 25.0

Start/End 1993/06/22 AT 13:20:00 1993/08/06 AT 09:00:00

Position 54 07.15N 03 26.94W Meter Height(m) 3.5

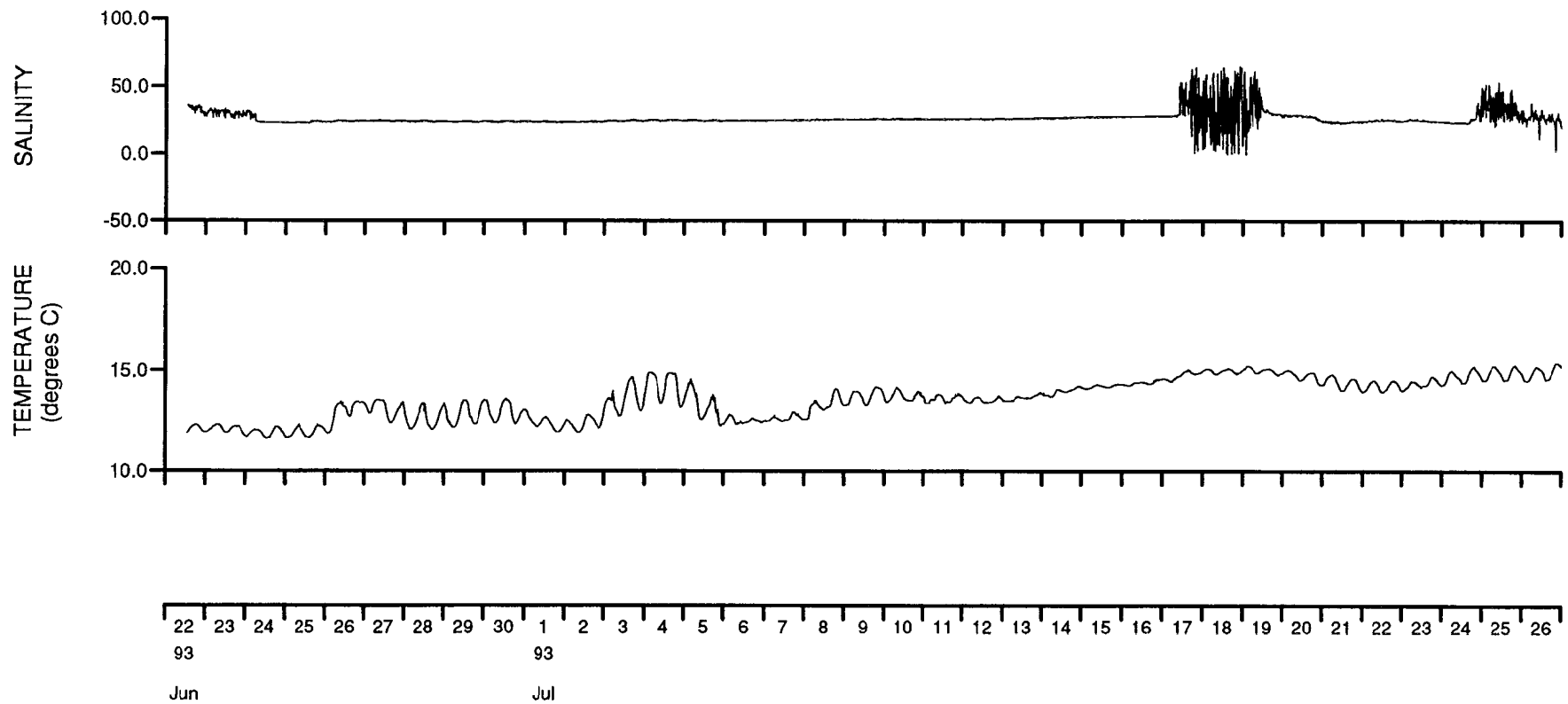


# TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 6443 Rig no. 00565 Depth of water(m) 25.0

Start/End 1993/06/22 AT 13:20:00 1993/08/06 AT 09:00:00

Position 54 07.15N 03 26.94W Meter Height(m) 3.5

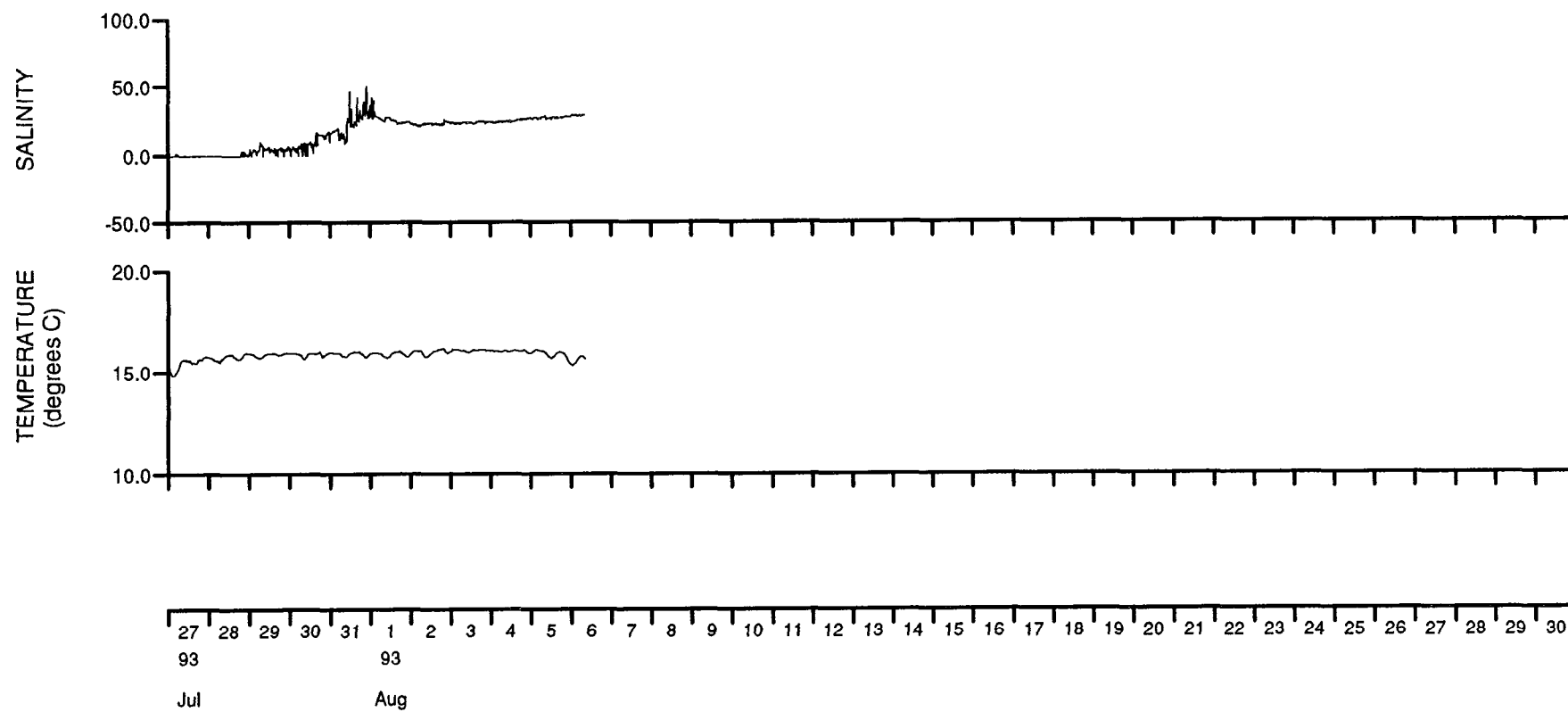


# TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 6443 Rig no. 00565 Depth of water(m) 25.0

Start/End 1993/06/22 AT 13:20:00 1993/08/06 AT 09:00:00

Position 54 07.15N 03 26.94W Meter Height(m) 3.5



# Statistics for aa6443b.00565s

	Mean	Variance	Standard deviation
Eastings	-0.0054	0.35184730E-01	0.18757594E+00
Northings	0.0082	0.31317197E-01	0.17696665E+00
Speed	0.2472	0.54953401E-02	0.74130557E-01
Vector mean speed	0.0098		
Vector Mean Direction	-33.3		

## Maximum ten values

Eastings					Northings				
0.421	0.418	0.417	0.416	0.416	0.333	0.332	0.331	0.330	0.329
0.414	0.414	0.414	0.412	0.412	0.328	0.326	0.326	0.326	0.325

## Minimum ten values

Eastings					Northings				
-0.324	-0.324	-0.324	-0.325	-0.332	-0.360	-0.361	-0.362	-0.366	-0.373
-0.338	-0.341	-0.345	-0.351	-0.358	-0.375	-0.382	-0.384	-0.386	-0.389

## Maximum speeds

0.494	0.492	0.484	0.483	0.483	0.478	0.474	0.471	0.467	0.466
0.466	0.464	0.463	0.457	0.457	0.457	0.455	0.455	0.455	0.453
0.453	0.453	0.452	0.452	0.452	0.452	0.452	0.450	0.450	0.449
0.448	0.448	0.446	0.446	0.446	0.445	0.445	0.445	0.445	0.445
0.443	0.443	0.442	0.442	0.442	0.442	0.441	0.441	0.441	0.439
0.439	0.439	0.439	0.439	0.439	0.439	0.439	0.438	0.438	0.438
0.438	0.438	0.436	0.436	0.436	0.436	0.436	0.435	0.435	0.435
0.434	0.434	0.434	0.432	0.432	0.432	0.431	0.431	0.431	0.431
0.431	0.429	0.429	0.429	0.429	0.429	0.428	0.428	0.428	0.428
0.427	0.427	0.425	0.425	0.425	0.425	0.424	0.422	0.422	0.421

## Variance ellipse statistics

Maximum variance	0.4700E-01	Direction	-49.0
Minimum variance	0.1951E-01	Direction	41.0
Total variance	0.6650E-01	Ratio of variances	0.4150E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		13.3	
Average direction. maxdir +PI/2 to maxdir -PI/2		183.2	

# Filtered Statistics for aa6443b.00565sf

	Mean	Variance	Standard deviation
Eastings	-0.0080	0.70610706E-03	0.26572676E-01
Northings	0.0123	0.90898876E-03	0.30149441E-01
Speed	0.0363	0.50583133E-03	0.22490695E-01
Vector mean speed	0.0147		
Vector Mean Direction	-33.0		

## Maximum ten values

Eastings					Northings				
0.068	0.066	0.063	0.055	0.053	0.075	0.066	0.065	0.064	0.064
0.051	0.051	0.043	0.037	0.036	0.061	0.059	0.058	0.057	0.057

## Minimum ten values

Eastings					Northings				
-0.047	-0.050	-0.050	-0.051	-0.053	-0.045	-0.046	-0.048	-0.048	-0.050
-0.054	-0.056	-0.056	-0.069	-0.070	-0.051	-0.053	-0.056	-0.059	-0.060

## Maximum speeds

0.096	0.090	0.082	0.082	0.082	0.077	0.075	0.074	0.074	0.073
0.072	0.071	0.070	0.069	0.069	0.069	0.068	0.068	0.067	0.066
0.064	0.063	0.063	0.063	0.061	0.061	0.061	0.059	0.058	0.057
0.057	0.057	0.056	0.056	0.055	0.055	0.054	0.054	0.053	0.053
0.053	0.053	0.053	0.052	0.050	0.050	0.050	0.049	0.048	0.048
0.048	0.047	0.046	0.046	0.046	0.045	0.044	0.044	0.044	0.043
0.043	0.042	0.042	0.042	0.042	0.040	0.040	0.040	0.039	0.039
0.038	0.037	0.037	0.036	0.036	0.036	0.036	0.035	0.034	0.034
0.034	0.032	0.032	0.032	0.032	0.031	0.031	0.031	0.030	0.030
0.030	0.028	0.028	0.026	0.026	0.026	0.026	0.026	0.025	0.024

## Variance ellipse statistics

Maximum variance	0.1428E-02	Direction	-40.3
Minimum variance	0.1870E-03	Direction	49.7
Total variance	0.1615E-02	Ratio of variances	0.1309E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		5.6	
Average direction. maxdir +PI/2 to maxdir -PI/2		183.6	

# STICK TIME SERIES PLOT

Rig no. 00565 Depth of water(m) 25.0

Meter No. Meter Height

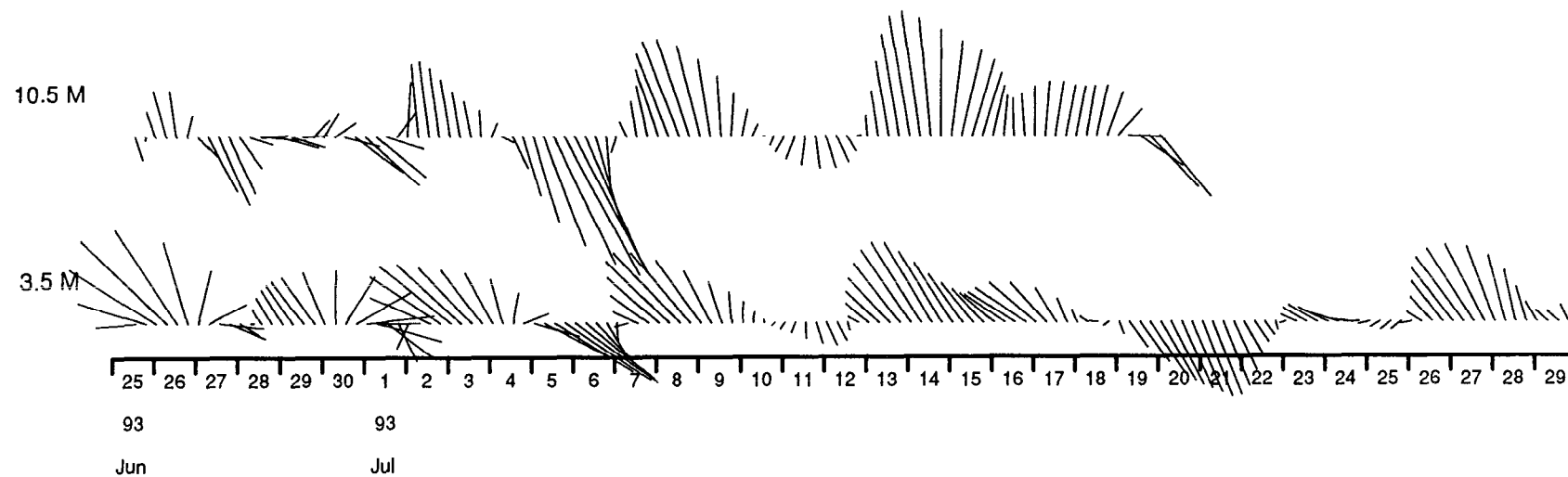
Start/End 1993/06/22 AT 13:20:00 1993/07/23 AT 06:20:00

Position 54 07.15N 03 26.94W

Filtered Series

Scale 0.1 m/s

0568	10.5 M
6443	3.5 M



**Rig information details for 00567**

Position Latitude	: 54 06.61N
Position Longitude	: 03 26.41W
Water depth	: 18.0 m
Deployed on cruise	: Brand'g
Recovered on cruise	: P.Madog
Site name identification	: Y
Magnetic deviation	: 6.7 degrees west
Rig deployed on	: 06-AUG-93 11:08:00
Rig recovered on	: 02-SEP-93 06:15:00
Period of deployment	: 26.8 days
Comments	: None

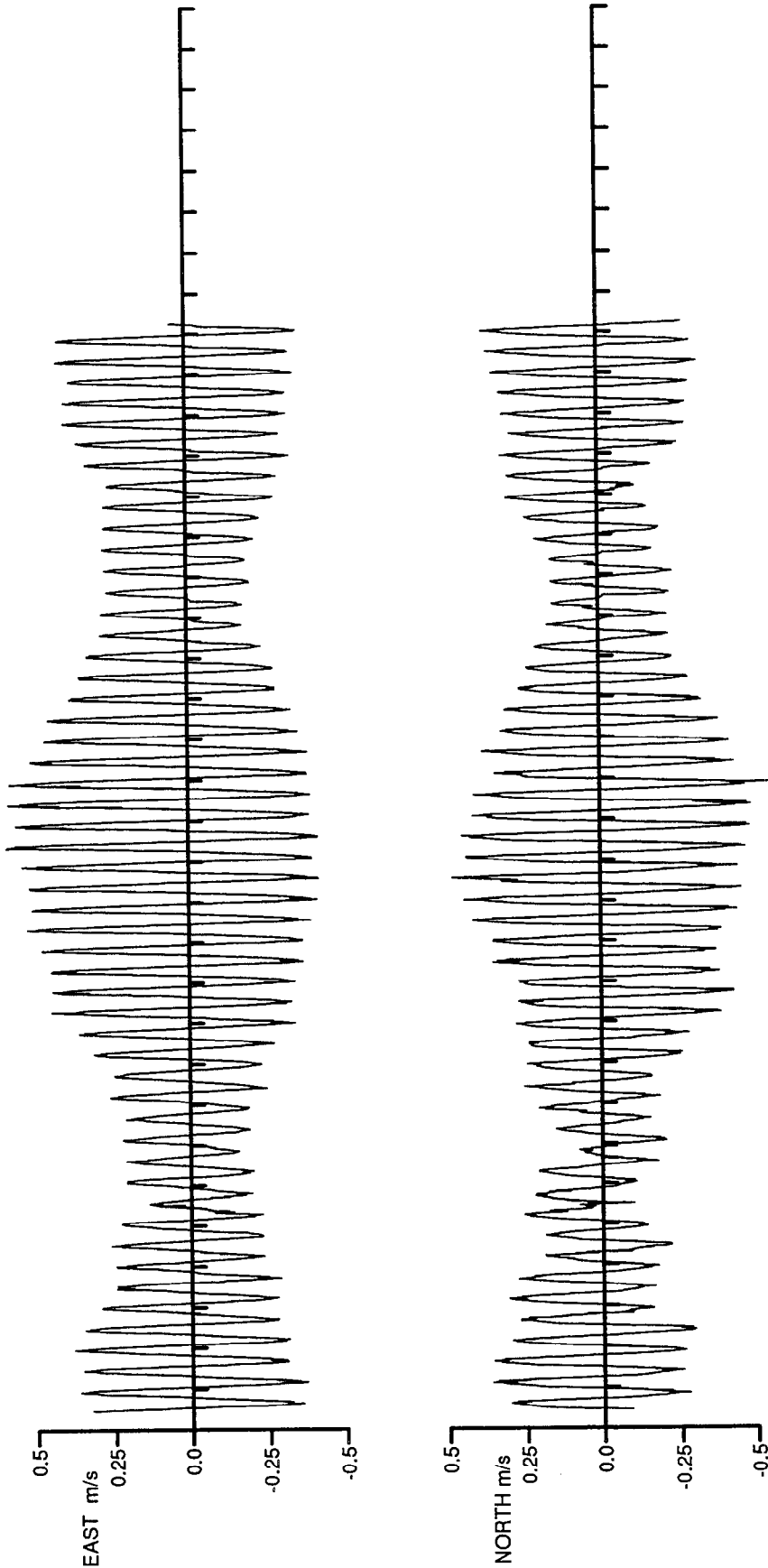


**Meter information details for 4387**

Rig No	: 00567
Meter No	: 4387
Recording interval	: 600.0 seconds
Meter height from bottom	: 10.5 m
Position of meter on rig	: T
Meter type	: AA
Meter started	: 06-AUG-93 07:20:00
Meter stopped	: 06-SEP-93 09:20:00
Period switched on	: 31.1 days
Period of good data	: 26.8 days
Total number of scans	: 3859
Timing error	: None
Comments	: None

VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 4387   Rig no. 00567   Depth of water(m)   18.0  
Start/End 1993/08/06 AT 11:08:00   1993/09/02 AT 06:15:00  
Position 54 06.61N   03 26.41W   Meter Height(m)   10.5

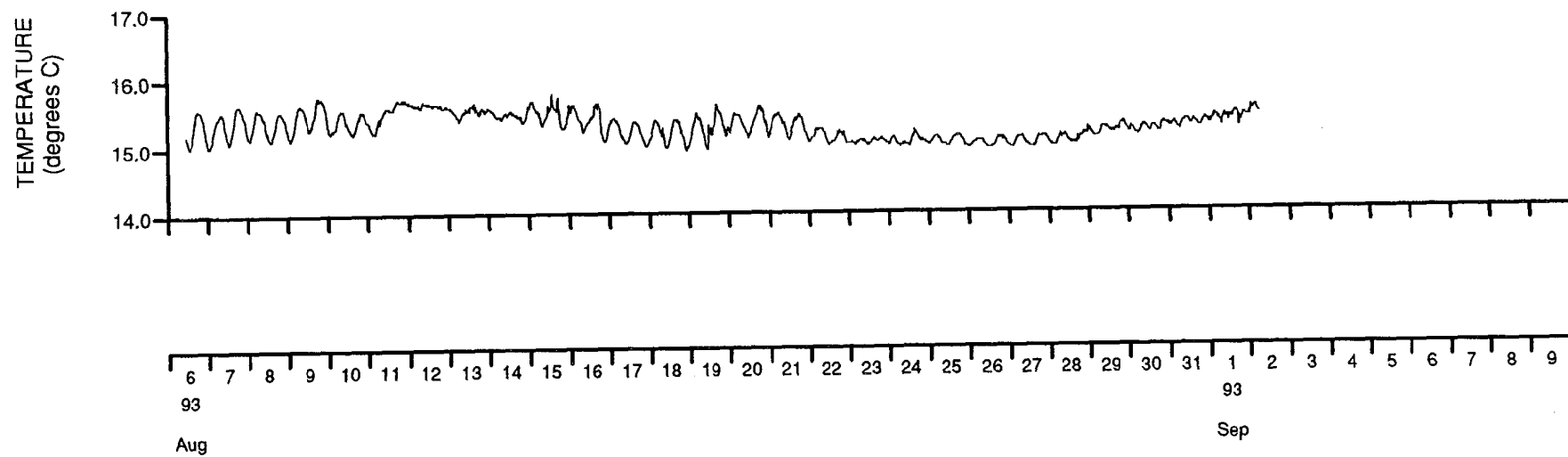


# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 4387 Rig no. 00567 Depth of water(m) 18.0

Start/End 1993/08/06 AT 11:08:00 1993/09/02 AT 06:15:00

Position 54 06.61N 03 26.41W Meter Height(m) 10.5

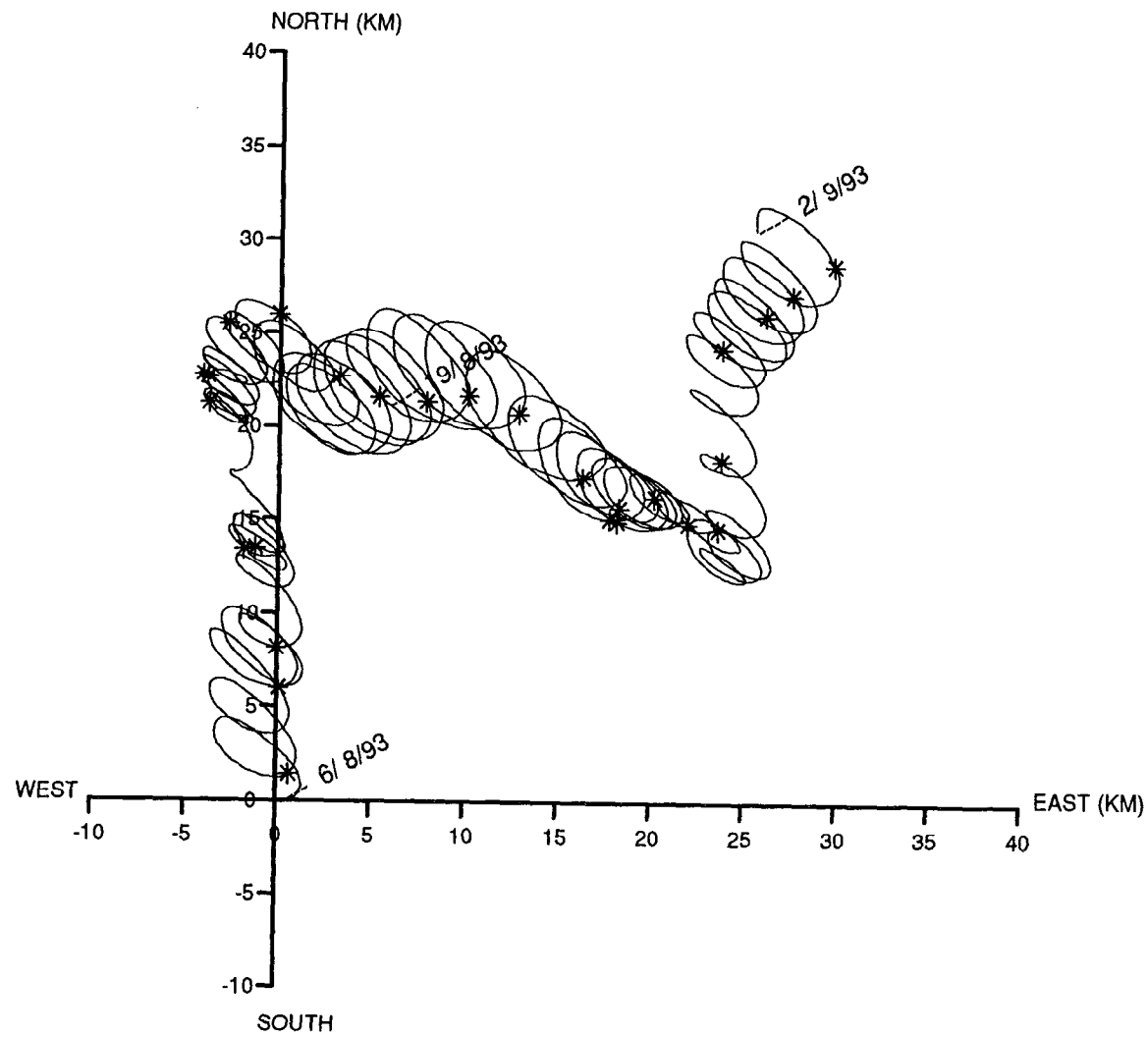


# VECTOR PLOT

Meter no. 4387 Rig no. 00567 Depth of water(m) 18.0

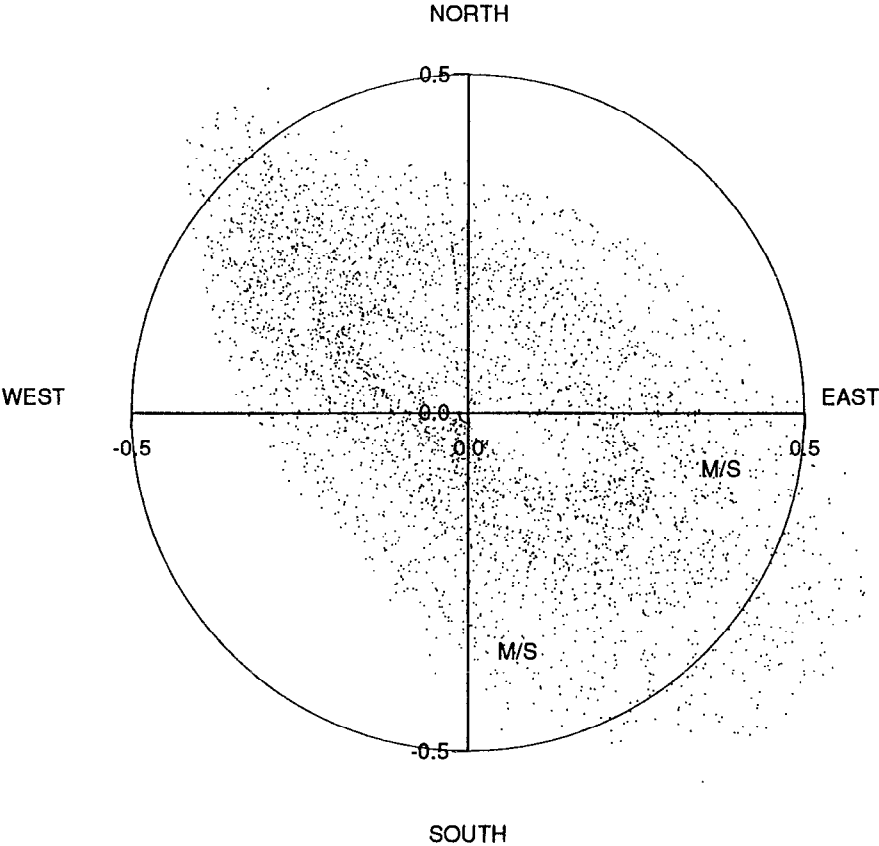
Start/End 1993/08/06 AT 11:08:00 1993/09/02 AT 06:15:00

Position 54 06.61N 03 26.41W Meter Height(m) 10.5



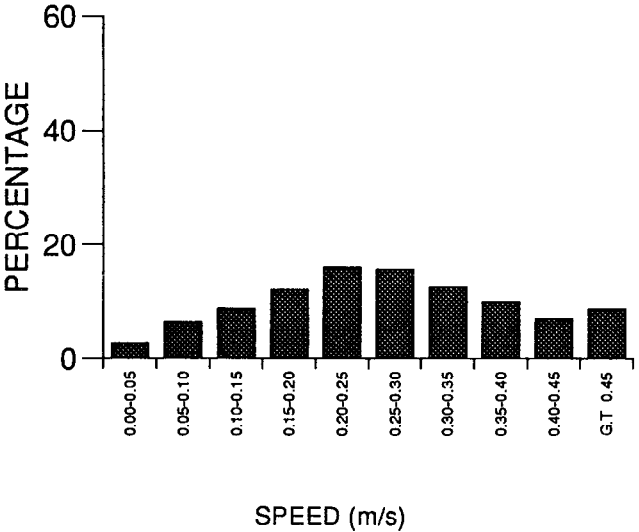
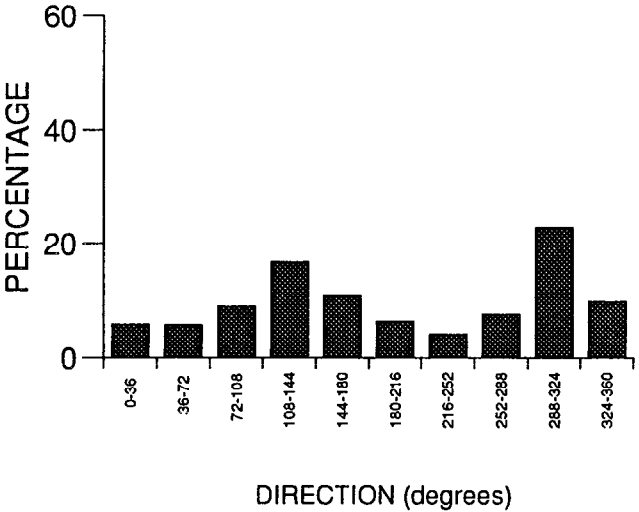
SCATTER PLOT

Meter no. 4387 Rig no. 00567 Depth of water(m) 18.0  
Start/End 1993/08/06 AT 11:08:00 1993/09/02 AT 06:15:00  
Position 54 06.61N 03 26.41W Meter Height(m) 10.5



HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 4387 Rig no. 00567 Depth of water(m) 18.0  
Start/End 1993/08/06 AT 11:08:00 1993/09/02 AT 06:15:00  
Position 54 06.61N 03 26.41W Meter Height(m) 10.5



# Statistics for aa4387t.00567s

	Mean	Variance	Standard deviation
Eastings	0.0110	0.49428705E-01	0.22232567E+00
Northings	0.0132	0.39558876E-01	0.19889414E+00
Speed	0.2704	0.16127652E-01	0.12699470E+00
Vector mean speed	0.0172		
Vector Mean Direction	39.8		

## Maximum ten values

Eastings					Northings				
0.588	0.586	0.583	0.583	0.581	0.479	0.451	0.446	0.441	0.440
0.577	0.561	0.560	0.556	0.554	0.436	0.434	0.433	0.429	0.428

## Minimum ten values

Eastings					Northings				
-0.397	-0.398	-0.404	-0.405	-0.409	-0.466	-0.469	-0.471	-0.471	-0.473
-0.413	-0.414	-0.415	-0.417	-0.418	-0.473	-0.476	-0.486	-0.488	-0.546

## Maximum speeds

0.659	0.653	0.653	0.648	0.648	0.645	0.645	0.642	0.639	0.639
0.639	0.637	0.637	0.634	0.634	0.634	0.631	0.631	0.631	0.628
0.625	0.625	0.620	0.617	0.617	0.617	0.614	0.614	0.611	0.611
0.609	0.609	0.606	0.603	0.597	0.597	0.595	0.595	0.592	0.589
0.589	0.589	0.589	0.586	0.586	0.586	0.583	0.581	0.581	0.581
0.581	0.581	0.581	0.578	0.578	0.578	0.578	0.578	0.578	0.578
0.575	0.575	0.575	0.575	0.575	0.572	0.572	0.569	0.569	0.569
0.569	0.569	0.567	0.567	0.567	0.564	0.564	0.564	0.564	0.564
0.564	0.564	0.561	0.561	0.561	0.561	0.558	0.558	0.555	0.555
0.555	0.553	0.553	0.553	0.553	0.553	0.550	0.550	0.550	0.550

## Variance ellipse statistics

Maximum variance	0.7178E-01	Direction	-50.2
Minimum variance	0.1720E-01	Direction	39.8
Total variance	0.8899E-01	Ratio of variances	0.2396E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		12.8	
Average direction. maxdir +PI/2 to maxdir -PI/2		180.6	

# Filtered Statistics for aa4387t.00567sf

	Mean	Variance	Standard deviation
Eastings	0.0135	0.26190435E-03	0.16183460E-01
Northings	0.0069	0.11056376E-02	0.33251129E-01
Speed	0.0342	0.41777382E-03	0.20439515E-01
Vector mean speed	0.0152		
Vector Mean Direction	62.8		

## Maximum ten values

Eastings					Northings				
0.051	0.049	0.047	0.044	0.041	0.096	0.095	0.079	0.077	0.075
0.039	0.035	0.033	0.032	0.031	0.073	0.072	0.067	0.064	0.058

## Minimum ten values

Eastings					Northings				
-0.008	-0.009	-0.010	-0.010	-0.013	-0.029	-0.030	-0.030	-0.034	-0.035
-0.013	-0.014	-0.016	-0.020	-0.021	-0.037	-0.038	-0.041	-0.041	-0.043

## Maximum speeds

0.098	0.097	0.080	0.078	0.077	0.074	0.073	0.067	0.065	0.065
0.064	0.059	0.059	0.056	0.051	0.050	0.048	0.044	0.044	0.044
0.043	0.042	0.041	0.041	0.040	0.037	0.036	0.036	0.035	0.035
0.033	0.033	0.032	0.032	0.032	0.032	0.032	0.031	0.031	0.030
0.030	0.029	0.029	0.028	0.027	0.026	0.025	0.025	0.025	0.025
0.025	0.024	0.024	0.024	0.023	0.023	0.023	0.022	0.022	0.022
0.022	0.021	0.021	0.020	0.020	0.020	0.020	0.019	0.018	0.018
0.017	0.016	0.016	0.016	0.014	0.014	0.013	0.013	0.013	0.011
0.011	0.009	0.006	0.005						

## Variance ellipse statistics

Maximum variance	0.1272E-02	Direction	-22.1
Minimum variance	0.9539E-04	Direction	67.9
Total variance	0.1368E-02	Ratio of variances	0.7498E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		38.0	
Average direction. maxdir +PI/2 to maxdir -PI/2		147.0	

**Meter information details for 7570**

Rig No	:	00567
Meter No	:	7570
Recording interval	:	300.0 seconds
Meter height from bottom	:	3.5 m
Position of meter on rig	:	B
Meter type	:	AA
Meter started	:	06-AUG-93 07:30:00
Time of last valid scan	:	06-SEP-93 09:20:00
Period of good data	:	6.3 days      short record
Total number of scans	:	1825
Timing error	:	None
Comments	:	All channels corrupted after 12/8(1910), therefore subsequent data deleted.

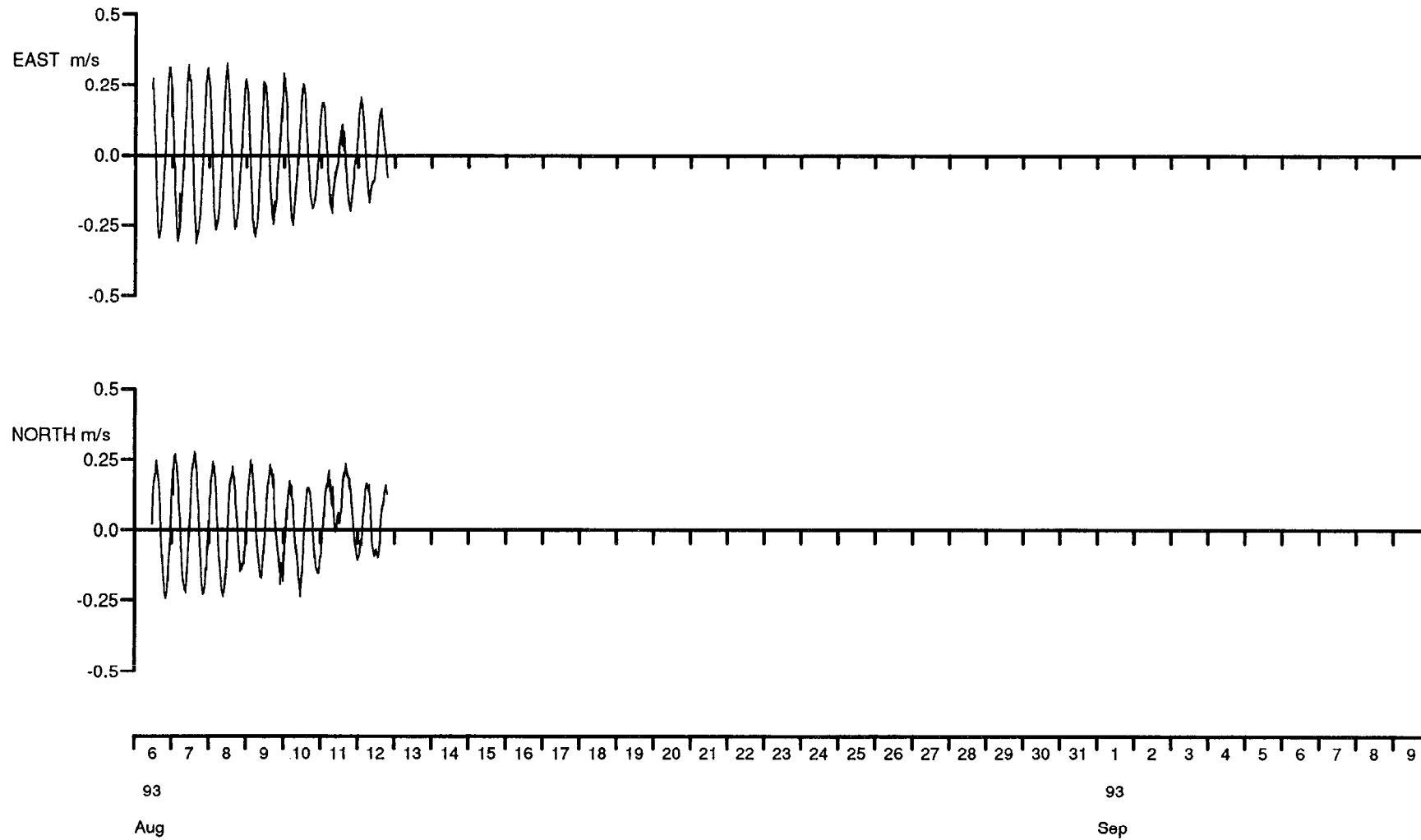


# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 7570 Rig no. 00567 Depth of water(m) 18.0

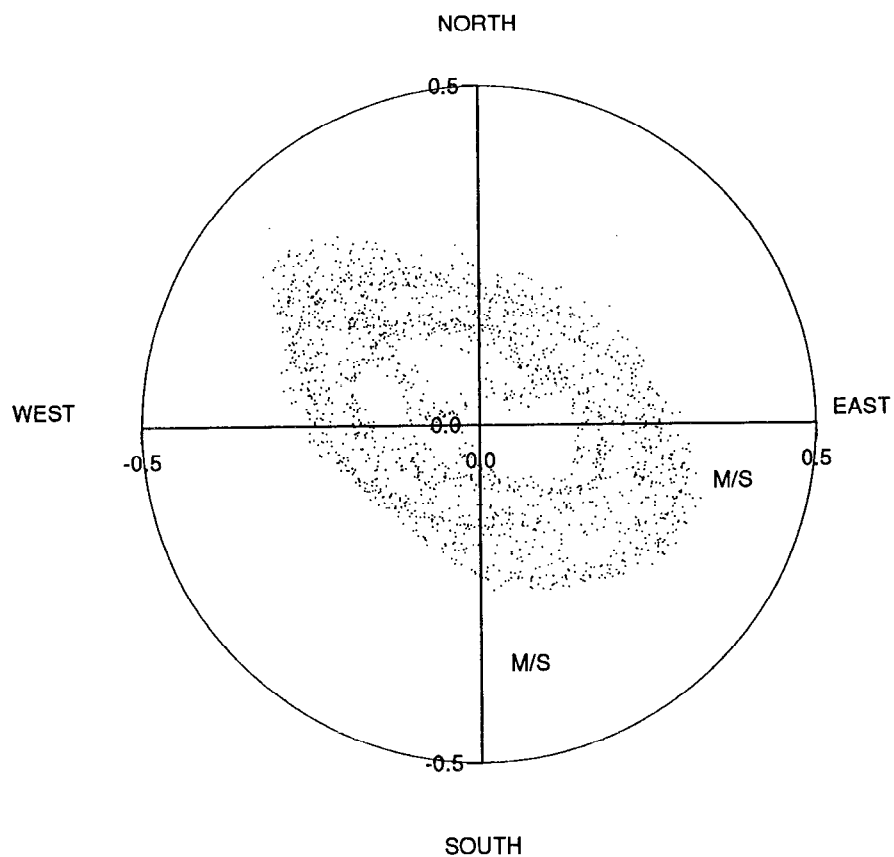
Start/End 1993/08/06 AT 11:08:00 1993/09/02 AT 06:15:00

Position 54 06.61N 03 26.41W Meter Height(m) 3.5



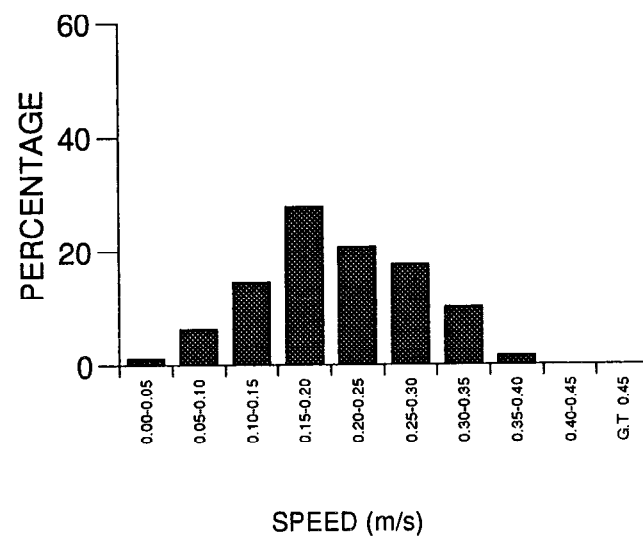
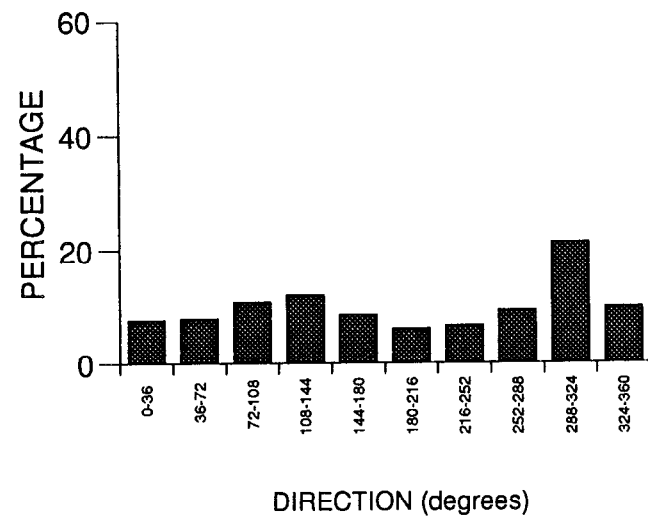
# SCATTER PLOT

Meter no. 7570 Rig no. 00567 Depth of water(m) 18.0  
 Start/End 1993/08/06 AT 11:08:00 1993/09/02 AT 06:15:00  
 Position 54 06.61N 03 26.41W Meter Height(m) 3.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 7570 Rig no. 00567 Depth of water(m) 18.0  
 Start/End 1993/08/06 AT 11:08:00 1993/09/02 AT 06:15:00  
 Position 54 06.61N 03 26.41W Meter Height(m) 3.5

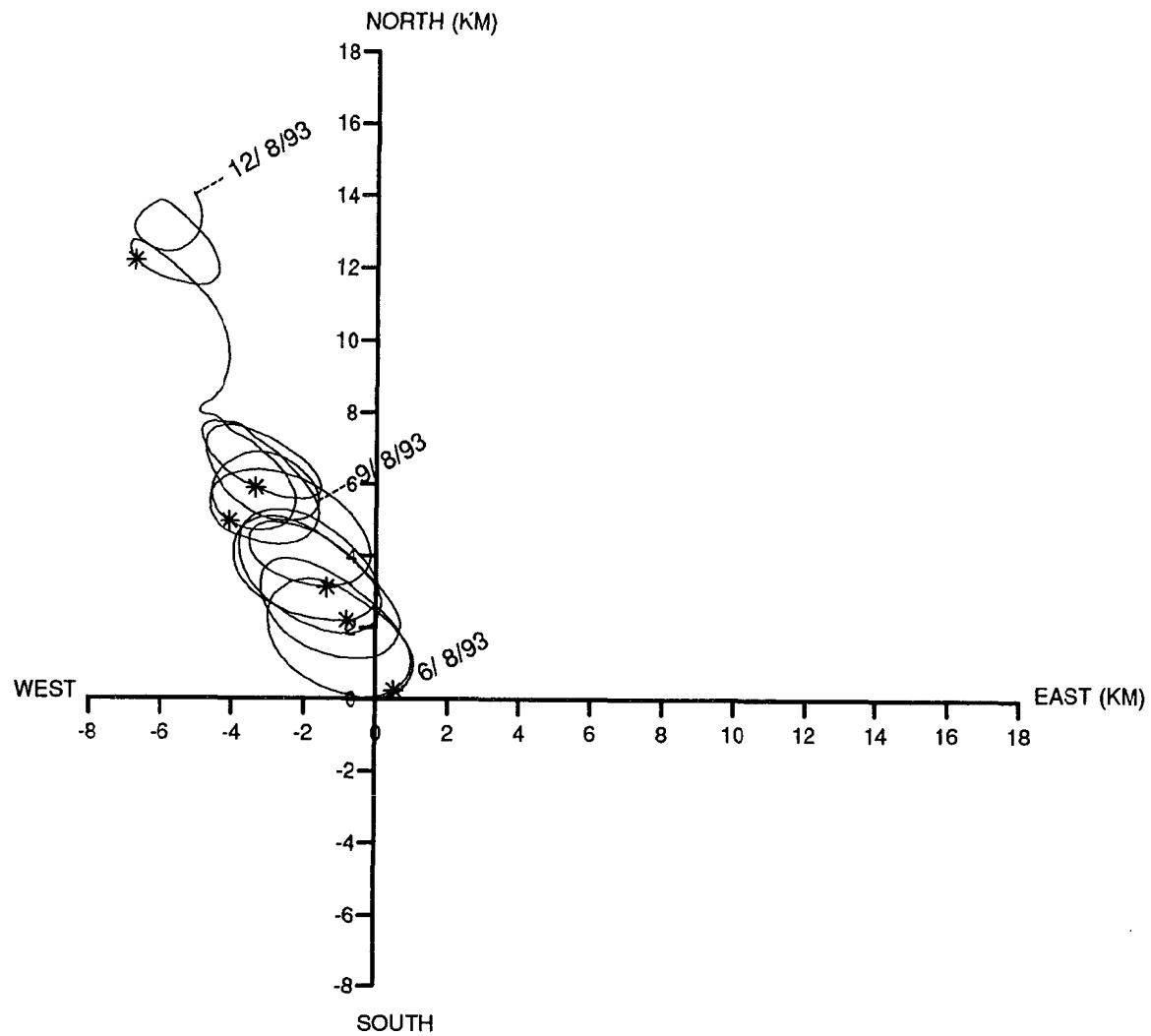


# VECTOR PLOT

Meter no. 7570 Rig no. 00567 Depth of water(m) 18.0

Start/End 1993/08/06 AT 11:08:00 1993/09/02 AT 06:15:00

Position 54 06.61N 03 26.41W Meter Height(m) 3.5

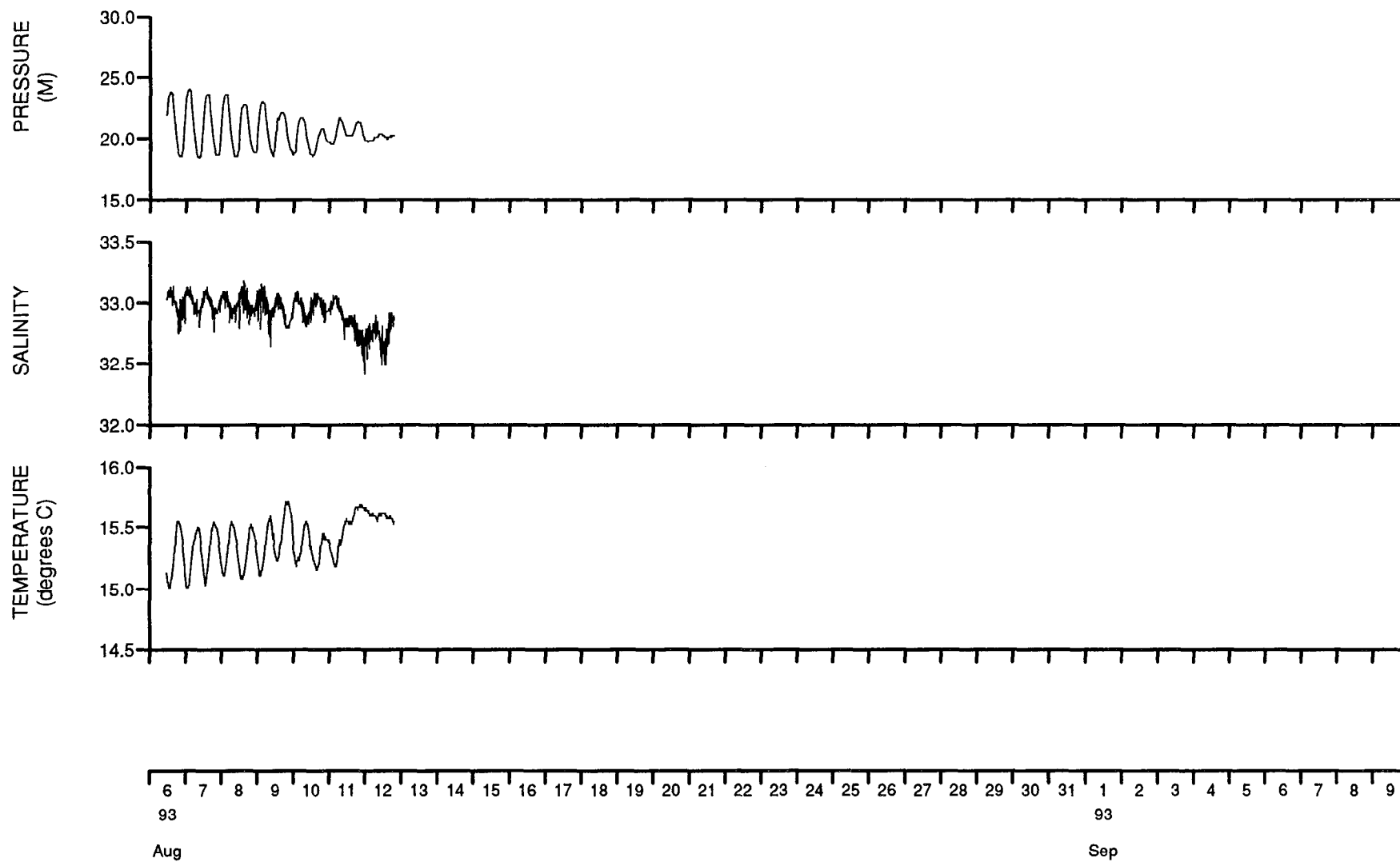


# TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 7570 Rig no. 00567 Depth of water(m) 18.0

Start/End 1993/08/06 AT 11:08:00 1993/09/02 AT 06:15:00

Position 54 06.61N 03 26.41W Meter Height(m) 3.5



# Statistics for aa7570b.00567s

	Mean	Variance	Standard deviation
Eastings	-0.0094	0.28538946E-01	0.16893475E+00
Northings	0.0256	0.18476261E-01	0.13592741E+00
Speed	0.2063	0.51981821E-02	0.72098419E-01
Vector mean speed	0.0273		
Vector Mean Direction	-20.1		

## Maximum ten values

Eastings					Northings				
0.327	0.320	0.320	0.315	0.312	0.278	0.272	0.270	0.268	0.267
0.311	0.310	0.310	0.307	0.307	0.267	0.266	0.265	0.261	0.260

## Minimum ten values

Eastings					Northings				
-0.295	-0.297	-0.297	-0.297	-0.299	-0.236	-0.236	-0.237	-0.238	-0.239
-0.302	-0.305	-0.305	-0.306	-0.319	-0.239	-0.241	-0.242	-0.243	-0.244

## Maximum speeds

0.387	0.385	0.382	0.382	0.382	0.379	0.376	0.376	0.373	0.368
0.368	0.368	0.368	0.365	0.362	0.359	0.357	0.357	0.357	0.357
0.357	0.357	0.354	0.354	0.354	0.354	0.354	0.351	0.351	0.351
0.348	0.348	0.348	0.348	0.348	0.348	0.348	0.345	0.343	0.343
0.343	0.343	0.343	0.343	0.340	0.340	0.340	0.340	0.340	0.340
0.340	0.337	0.337	0.337	0.337	0.337	0.334	0.334	0.334	0.334
0.334	0.334	0.334	0.334	0.334	0.334	0.331	0.331	0.331	0.331
0.331	0.331	0.331	0.331	0.329	0.329	0.329	0.329	0.329	0.329
0.329	0.329	0.329	0.329	0.329	0.326	0.326	0.326	0.326	0.326
0.326	0.326	0.323	0.323	0.323	0.323	0.323	0.323	0.323	0.323

## Variance ellipse statistics

Maximum variance	0.3518E-01	Direction	-57.8
Minimum variance	0.1183E-01	Direction	32.2
Total variance	0.4702E-01	Ratio of variances	0.3363E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		19.3	
Average direction. maxdir +PI/2 to maxdir -PI/2		176.0	

# Filtered Statistics for aa7570b.00567sf

	Mean	Variance	Standard deviation
Eastings	-0.0055	0.16252403E-03	0.12748491E-01
Northings	0.0095	0.53145579E-03	0.23053324E-01
Speed	0.0239	0.22494189E-03	0.14998063E-01
Vector mean speed	0.0110		
Vector Mean Direction	-30.1		

## Maximum ten values

Eastings					Northings				
0.007	0.007	0.007	0.005	0.005	0.060	0.038	0.035	0.035	0.033
0.005	0.004	0.004	0.004	0.002	0.032	0.032	0.027	0.027	0.024

## Minimum ten values

Eastings					Northings				
-0.006	-0.007	-0.011	-0.015	-0.015	-0.005	-0.009	-0.012	-0.014	-0.015
-0.019	-0.026	-0.028	-0.033	-0.034	-0.016	-0.017	-0.018	-0.020	-0.022

## Maximum speeds

0.063	0.043	0.042	0.042	0.041	0.041	0.038	0.035	0.033	0.026
0.024	0.022	0.022	0.020	0.018	0.017	0.017	0.017	0.014	0.013
0.012	0.012	0.010	0.008	0.008	0.006	0.002			

## Variance ellipse statistics

Maximum variance	0.6125E-03	Direction	-23.0
Minimum variance	0.8145E-04	Direction	67.0
Total variance	0.6940E-03	Ratio of variances	0.1330E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		9.4	
Average direction. maxdir +PI/2 to maxdir -PI/2		195.2	

# STICK TIME SERIES PLOT

Rig no. 00567 Depth of water(m) 22.0

Meter No. Meter Height

Start/End 1993/08/06 AT 11:08:00 1993/09/02 AT 06:15:00

Position 54 06.61N 03 26.41W

Filtered Series

Scale 0.1 m/s

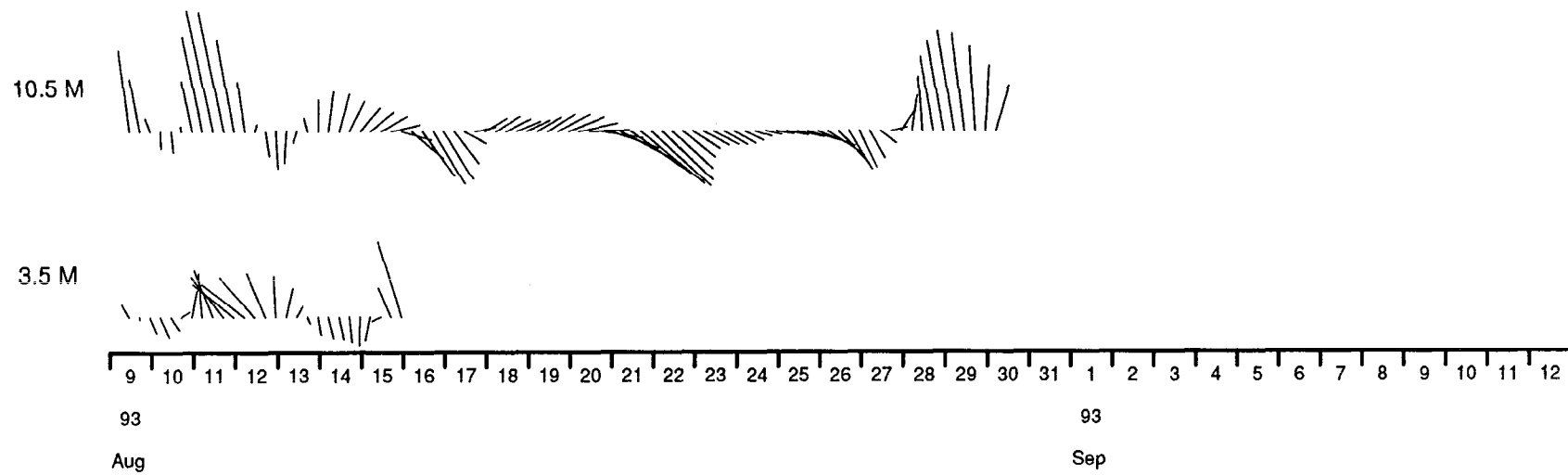


4387

10.5 M

7570

3.5 M



**Rig information details for 00566**

Position Latitude	:	54 07.06N
Position Longitude	:	03 26.41W
Water depth	:	21.0 m
Deployed on cruise	:	Brand'g
Recovered on cruise	:	P.Madog
Site name identification	:	Y
Magnetic deviation	:	6.7 degrees west
Rig deployed on	:	06-AUG-93 09:50:00
Rig recovered on	:	01-SEP-93 14:40:00
Period of deployment	:	26.2 days
Comments	:	Rig recovered 1.5 miles off position, assumed trawled.



**Meter information details for 0010**

Rig No	:	00566
Meter No	:	0010
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.5 m
Meter type	:	DP
Meter started	:	06-AUG-93 08:09:01
Time of last valid scan	:	17-AUG-93 13:29:20
Period of good data	:	11.2 days      short record
Total number of scans	:	1606
Timing error	:	19 seconds slow
Comments	:	11 days data only. Data stops on 17/8(1329), presumably after being trawled. No compass correction applied.

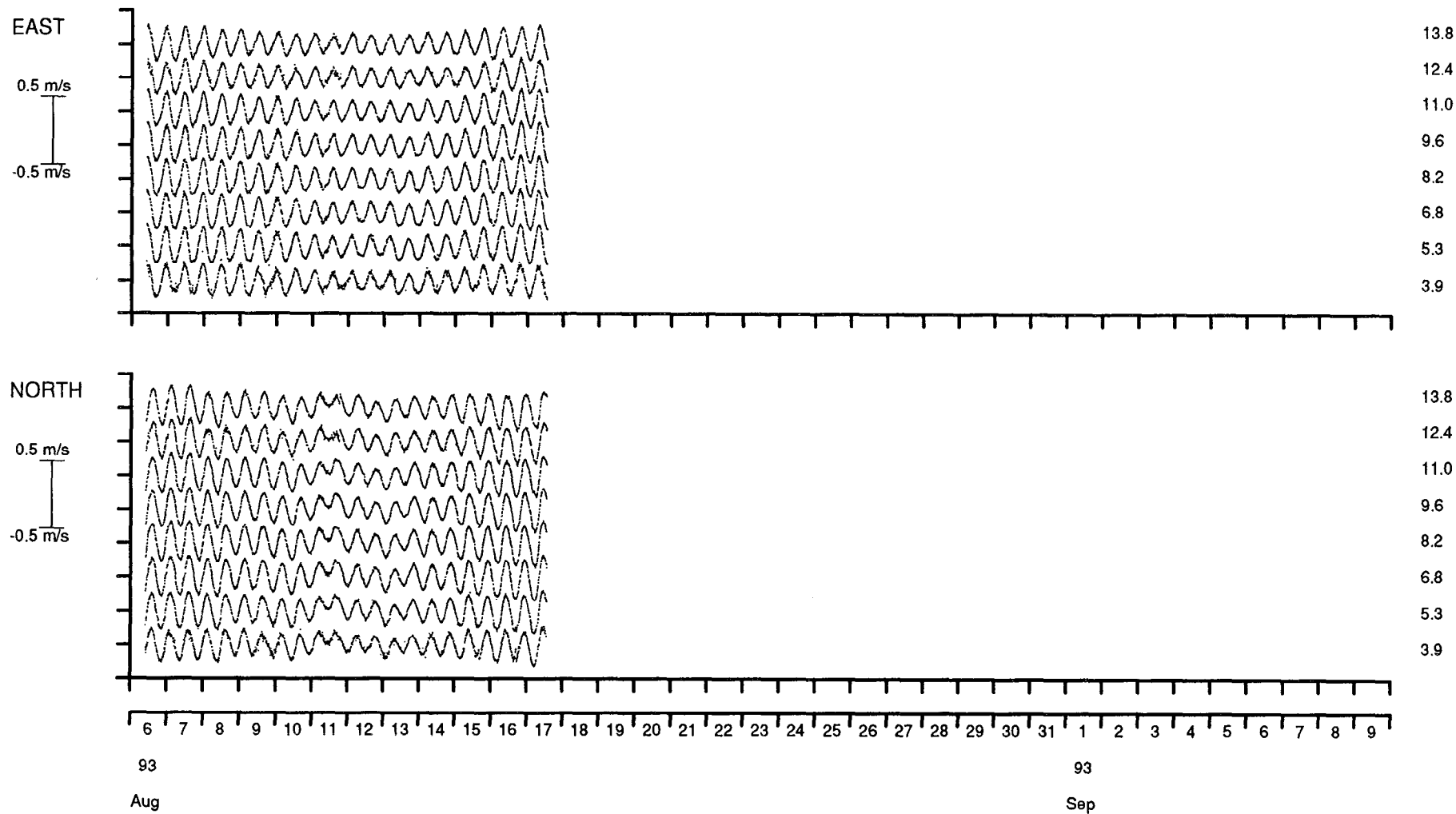
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00566 Depth of water(m) 21.0

Start/End 1993/08/06 AT 09:50:00 1993/09/01 AT 14:40:00

Position 54 07.06N 03 26.41W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)



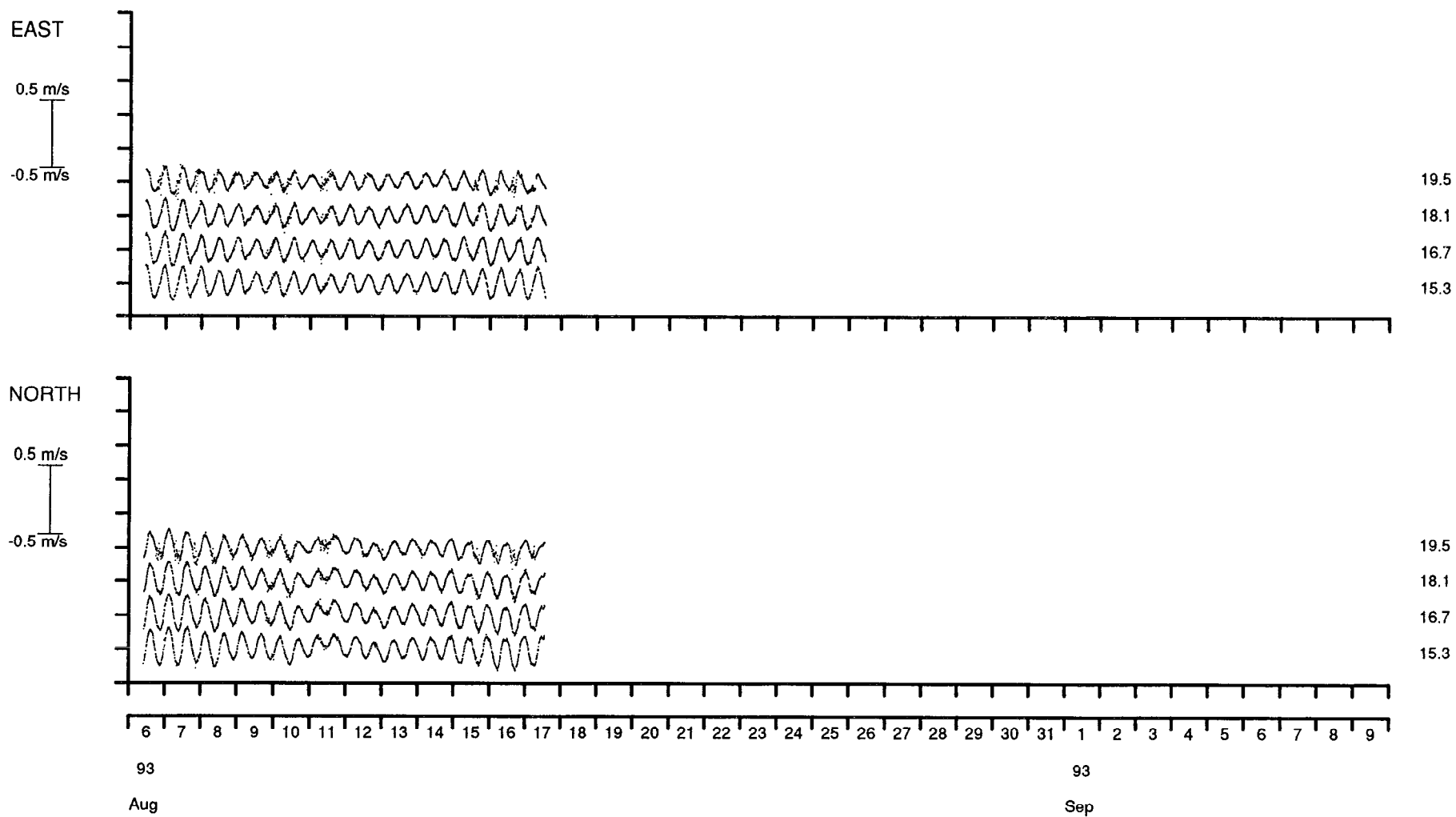
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00566 Depth of water(m) 21.0

Start/End 1993/08/06 AT 09:50:00 1993/09/01 AT 14:40:00

Position 54 07.06N 03 26.41W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)

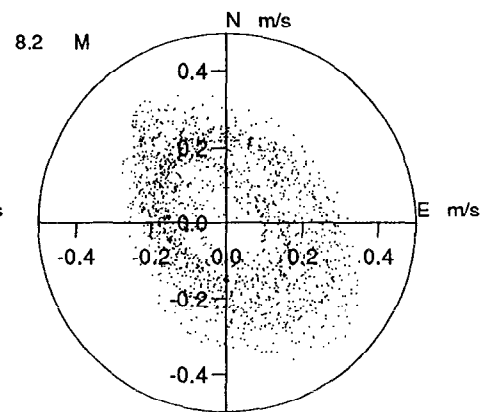
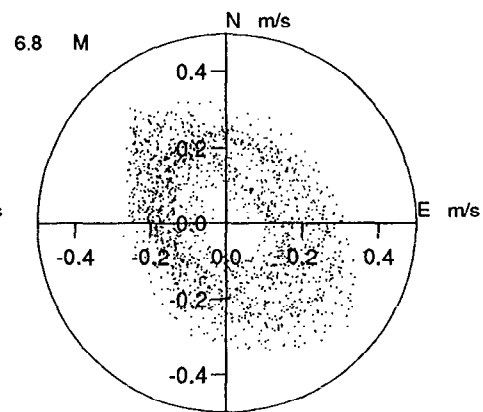
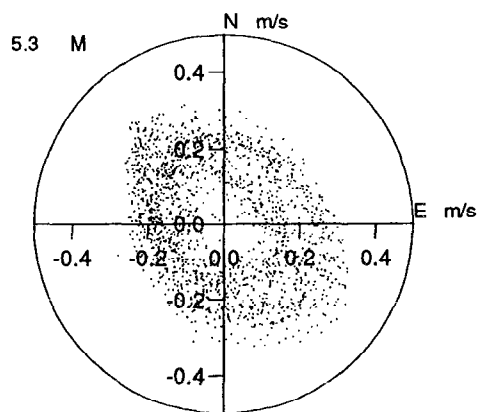
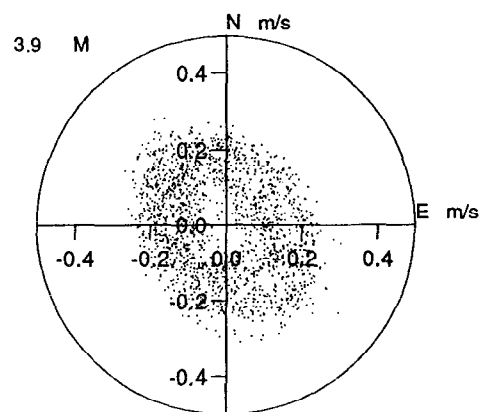
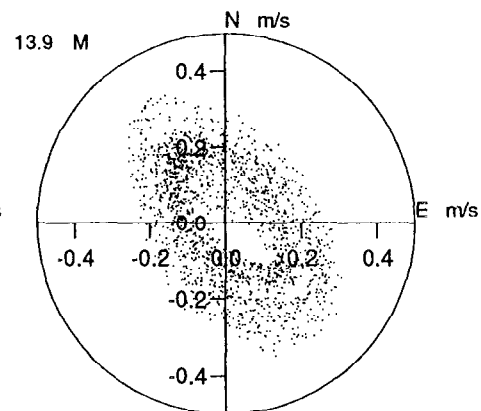
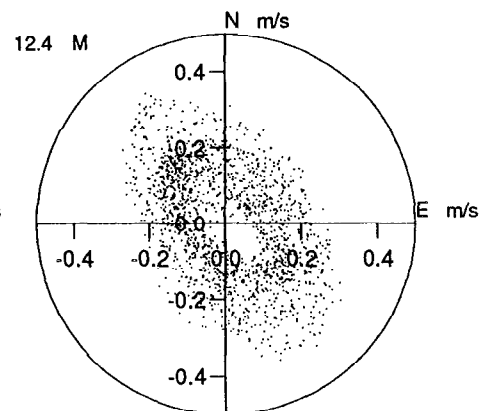
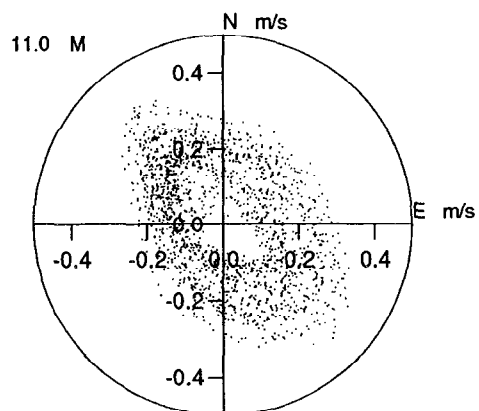
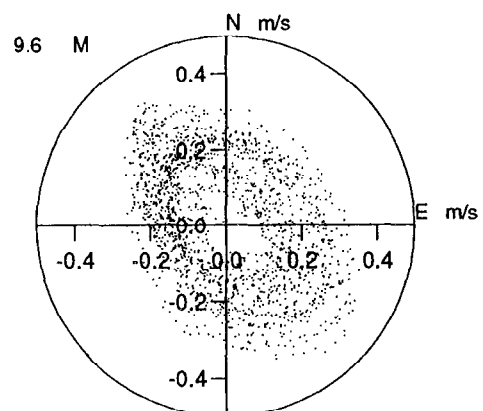


# SCATTER PLOT

Meter no. 0010 Rig no. 00566 Depth of water(m) 21.0

Start/End 1993/08/06 AT 09:50:00 1993/09/01 AT 14:40:00

Position 54 07.06N 03 26.41W 3.91 Base Ht 1.42 Gap Ht

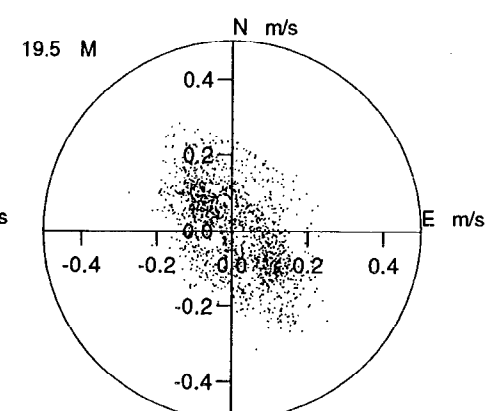
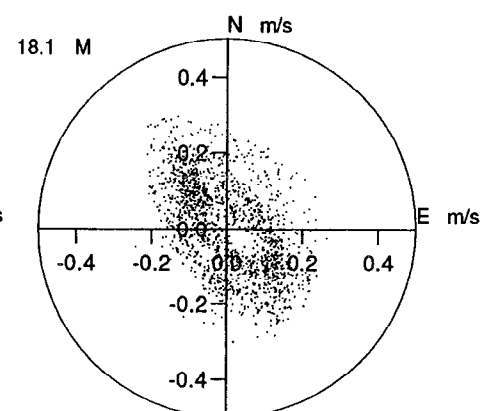
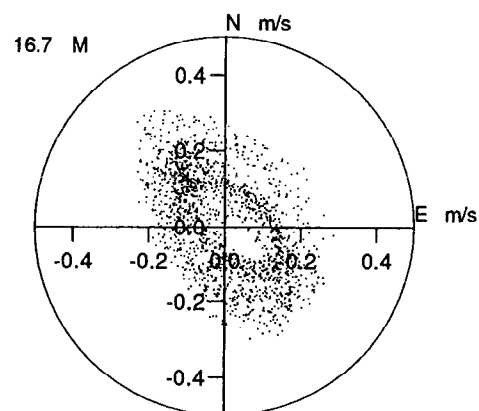
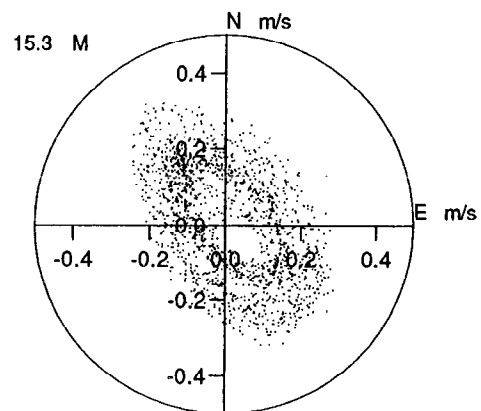


# SCATTER PLOT

Meter no. 0010 Rig no. 00566 Depth of water(m) 21.0

Start/End 1993/08/06 AT 09:50:00 1993/09/01 AT 14:40:00

Position 54 07.06N 03 26.41W 3.91 Base Ht 1.42 Gap Ht



# STICK TIME SERIES PLOT

Meter no. 0010 Rig no. 00566 Depth of water(m) 21.0

Start/End 1993/08/06 AT 09:50:00 1993/09/01 AT 14:40:00

Position 54 07.06N 03 26.41W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

—

Bin Ht (m)



9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12

93

93

Aug

Sep

STICK TIME SERIES PLOT

Meter no. 0010 Rig no. 00566 Depth of water(m) 21.0

Start/End 1993/08/06 AT 09:50:00 1993/09/01 AT 14:40:00

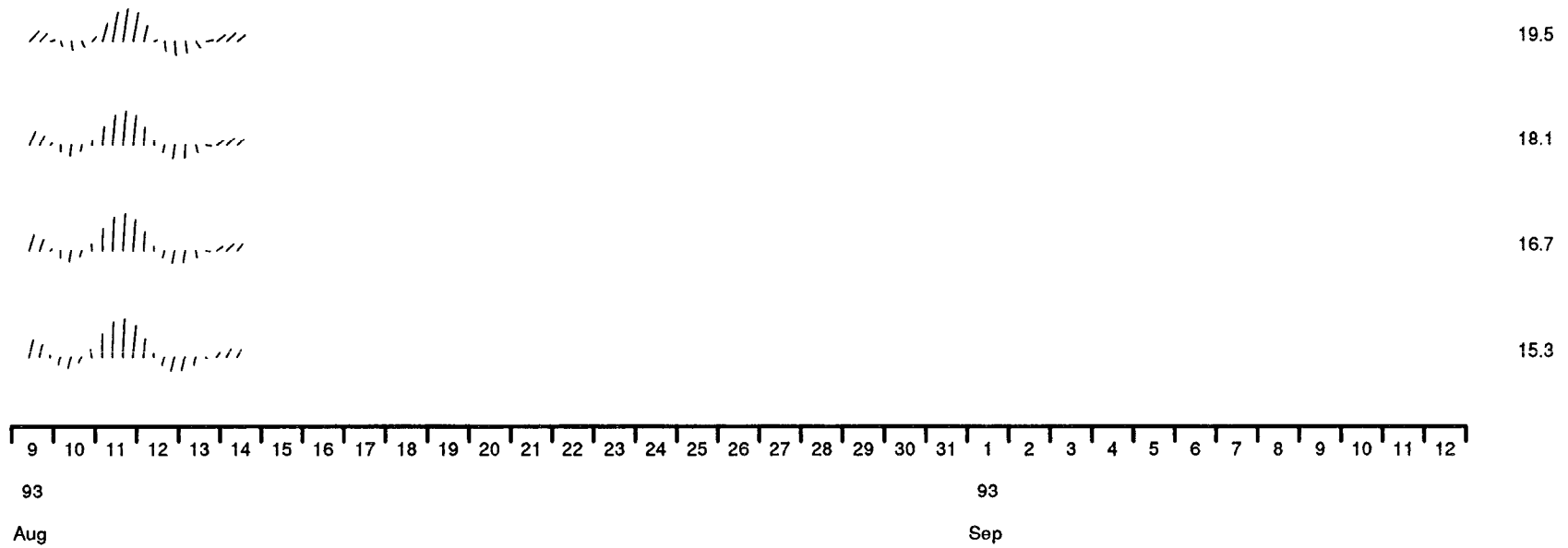
Position 54 07.06N 03 26.41W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

—

Bin Ht (m)



## Statistics for dp0010.00566

### Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.013	-71.1	0.0220	-42.1	0.0122	47.9
2	5.3	0.011	-45.5	0.0308	-43.5	0.0155	46.5
3	6.8	0.012	-34.6	0.0337	-42.7	0.0161	47.3
4	8.2	0.012	-26.4	0.0350	-42.2	0.0156	47.8
5	9.6	0.012	-13.3	0.0344	-41.0	0.0143	49.0
6	11.0	0.012	0.6	0.0316	-40.5	0.0119	49.5
7	12.4	0.008	12.3	0.0282	-37.2	0.0098	52.8
8	13.8	0.010	29.7	0.0306	-38.0	0.0098	52.0
9	15.3	0.009	31.0	0.0287	-37.6	0.0086	52.4
10	16.7	0.008	28.0	0.0244	-37.2	0.0068	52.8
11	18.1	0.006	45.1	0.0198	-36.7	0.0055	53.3
12	19.5	0.007	71.0	0.0165	-38.0	0.0045	52.0



## Statistics for dp0010.00566

### Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.028	-70.7	0.0011	7.9	0.0001	97.9
2	5.3	0.027	-59.5	0.0015	5.0	0.0001	95.0
3	6.8	0.027	-54.1	0.0015	5.2	0.0001	95.2
4	8.2	0.026	-50.6	0.0015	6.2	0.0001	96.2
5	9.6	0.023	-42.4	0.0016	5.5	0.0001	95.5
6	11.0	0.020	-33.0	0.0015	5.0	0.0000	95.0
7	12.4	0.011	-17.7	0.0010	9.6	0.0000	99.6
8	13.8	0.014	-5.4	0.0012	8.2	0.0000	98.2
9	15.3	0.015	3.6	0.0014	6.7	0.0000	96.7
10	16.7	0.016	13.5	0.0013	4.6	0.0000	94.6
11	18.1	0.014	22.7	0.0011	5.5	0.0000	95.5
12	19.5	0.015	45.5	0.0010	5.9	0.0000	95.9

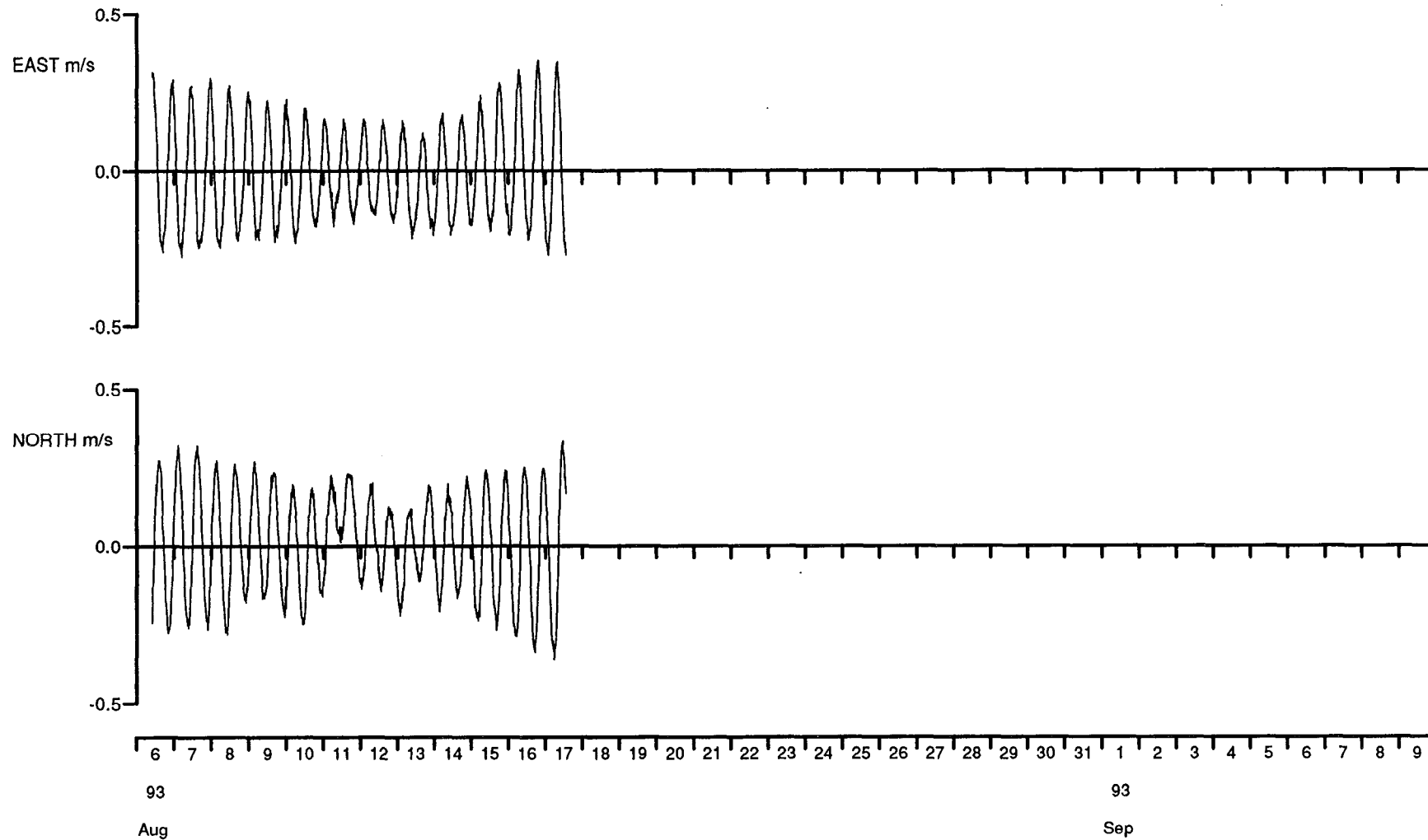
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00566 Depth of water(m) 21.0

Start/End 1993/08/06 AT 09:50:00 1993/09/01 AT 14:40:00

Position 54 07.06N 03 26.41W 3.91 Base Ht 1.42 Gap Ht 8.2 Bin Ht (m)

Bin closest to depth average



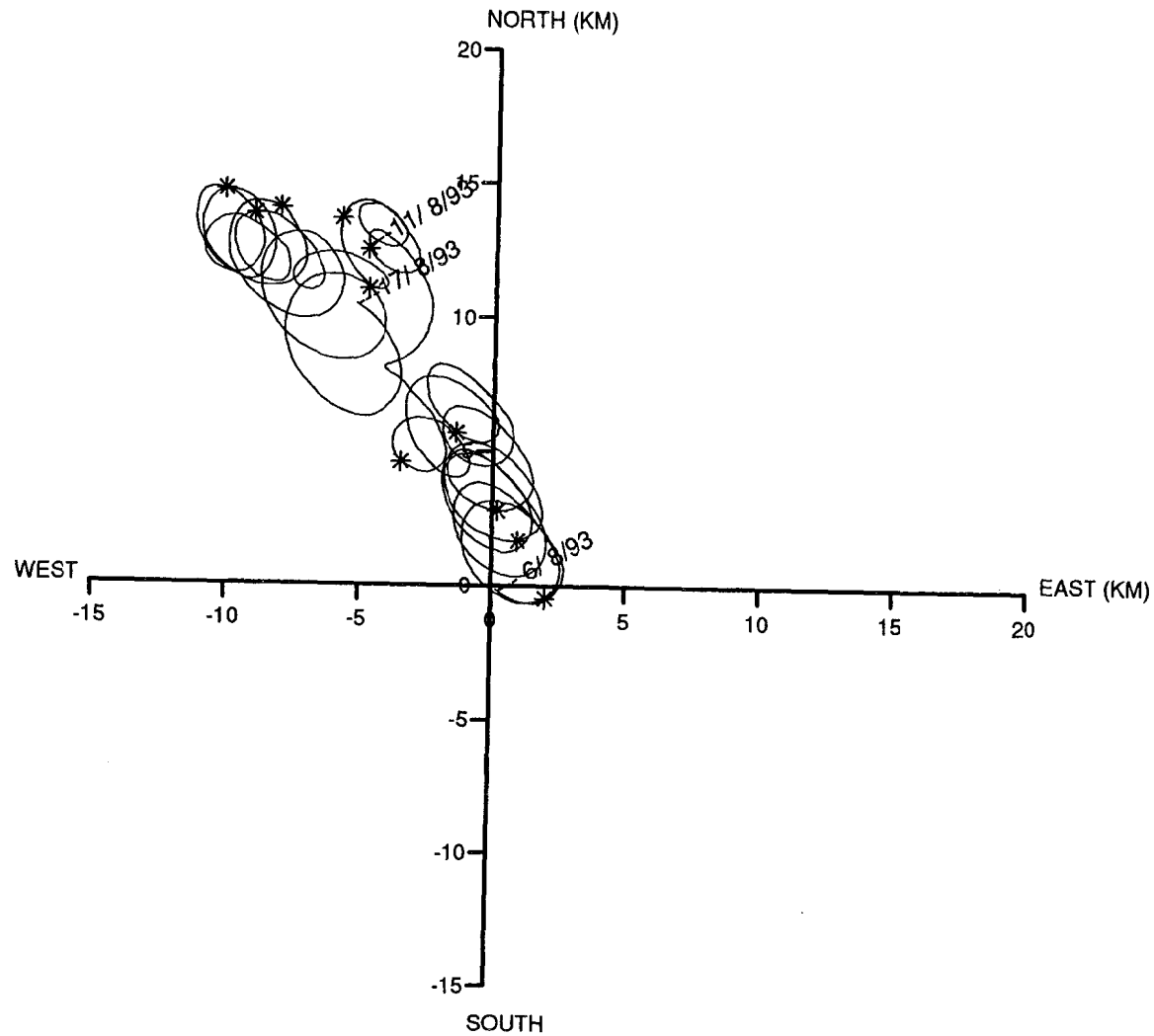
# VECTOR PLOT

Meter no. 0010 Rig no. 00566 Depth of water(m) 21.0

Start/End 1993/08/06 AT 09:50:00 1993/09/01 AT 14:40:00

Position 54 07.06N 03 26.41W 3.91 Base Ht 1.42 Gap Ht 8.2 Bin Ht (m)

Bin closest to depth average



## Statistics for dp0010.00566s4

Doppler bin number 4

	Mean	Variance	Standard deviation
Eastings	-0.0054	0.24317365E-01	0.15594025E+00
Northings	0.0109	0.26236380E-01	0.16197647E+00
Speed	0.2142	0.47762743E-02	0.69110595E-01
Vector mean speed	0.0121		
Vector Mean Direction	-26.4		

### Maximum ten values

Eastings					Northings				
0.350	0.346	0.344	0.344	0.343	0.334	0.334	0.320	0.319	0.312
0.338	0.334	0.329	0.329	0.325	0.310	0.310	0.305	0.303	0.302

### Minimum ten values

Eastings					Northings				
-0.254	-0.256	-0.256	-0.257	-0.260	-0.326	-0.326	-0.327	-0.329	-0.333
-0.262	-0.270	-0.271	-0.273	-0.275	-0.338	-0.339	-0.340	-0.340	-0.360

### Maximum speeds

0.432	0.419	0.418	0.417	0.415	0.406	0.403	0.401	0.395	0.392
0.390	0.390	0.389	0.386	0.385	0.385	0.381	0.380	0.380	0.379
0.378	0.378	0.377	0.377	0.376	0.373	0.373	0.373	0.373	0.372
0.370	0.370	0.367	0.367	0.366	0.366	0.366	0.365	0.365	0.365
0.363	0.360	0.360	0.359	0.359	0.358	0.358	0.357	0.356	0.356
0.356	0.355	0.353	0.352	0.352	0.351	0.349	0.348	0.348	0.346
0.346	0.343	0.343	0.343	0.342	0.342	0.340	0.340	0.340	0.340
0.338	0.337	0.337	0.336	0.336	0.336	0.336	0.336	0.336	0.335
0.335	0.332	0.332	0.331	0.329	0.329	0.329	0.328	0.328	0.328
0.327	0.327	0.327	0.326	0.326	0.325	0.325	0.325	0.325	0.325

## Variance ellipse statistics

Maximum variance	0.3500E-01	Direction	-42.2
Minimum variance	0.1555E-01	Direction	47.8
Total variance	0.5055E-01	Ratio of variances	0.4443E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		12.2	
Average direction. maxdir +PI/2 to maxdir -PI/2		179.8	

## Filtered Statistics for dp0010.00566s4f

Doppler bin number 4

	Mean	Variance	Standard deviation
Eastings	-0.0203	0.14333363E-03	0.11972202E-01
Northings	0.0167	0.15177556E-02	0.38958382E-01
Speed	0.0420	0.53681078E-03	0.23169177E-01
Vector mean speed	0.0263		
Vector Mean Direction	-50.6		

### Maximum ten values

Eastings					Northings				
-0.007	-0.008	-0.011	-0.011	-0.011	0.097	0.091	0.078	0.061	0.043
-0.013	-0.014	-0.015	-0.015	-0.015	0.041	0.026	0.019	0.014	0.013

### Minimum ten values

Eastings					Northings				
-0.016	-0.017	-0.017	-0.019	-0.025	0.007	0.002	0.000	-0.011	-0.017
-0.031	-0.036	-0.041	-0.044	-0.046	-0.018	-0.023	-0.024	-0.028	-0.033

### Maximum speeds

0.098	0.092	0.078	0.062	0.046	0.045	0.044	0.043	0.043	0.039
0.039	0.037	0.034	0.030	0.030	0.028	0.024	0.023	0.021	0.017
0.010									

## Variance ellipse statistics

Maximum variance	0.1534E-02	Direction	6.2
Minimum variance	0.1272E-03	Direction	96.2
Total variance	0.1661E-02	Ratio of variances	0.8290E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		-37.9	
Average direction. maxdir +PI/2 to maxdir -PI/2		227.2	

**Rig information details for 00569**

Position Latitude	:	54 06.00N
Position Longitude	:	03 26.80W
Water depth	:	18.0 m
Deployed on cruise	:	P.Madog
Recovered on cruise	:	CH106
Site name identification	:	Y
Magnetic deviation	:	6.7 degrees west
Rig deployed on	:	02-SEP-93 08:00:00
Rig recovered on	:	25-SEP-93 08:37:00
Period of deployment	:	23.0 days
Comments	:	None

**Meter information details for 0568**

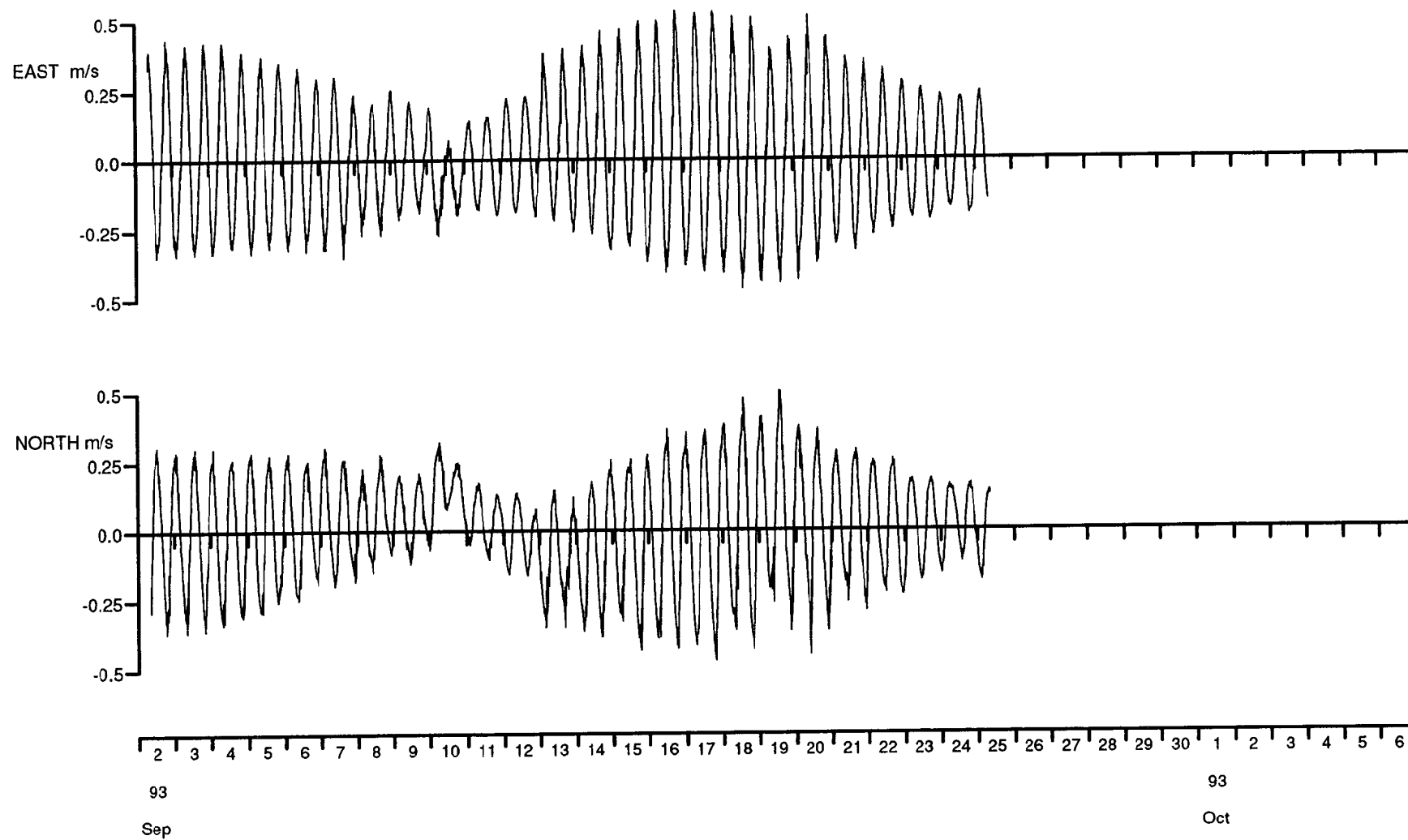
Rig No	:	00569
Meter No	:	0568
Recording interval	:	600.0 seconds
Meter height from bottom	:	10.5 m
Position of meter on rig	:	T
Meter type	:	AA
Meter started	:	01-SEP-93 12:30:00
Meter stopped	:	25-SEP-93 09:00:00
Period switched on	:	23.9 days
Period of good data	:	23.0 days
Total number of scans	:	3315
Timing error	:	None
Comments	:	None

# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0568 Rig no. 00569 Depth of water(m) 18.0

Start/End 1993/09/02 AT 08:00:00 1993/09/25 AT 08:37:00

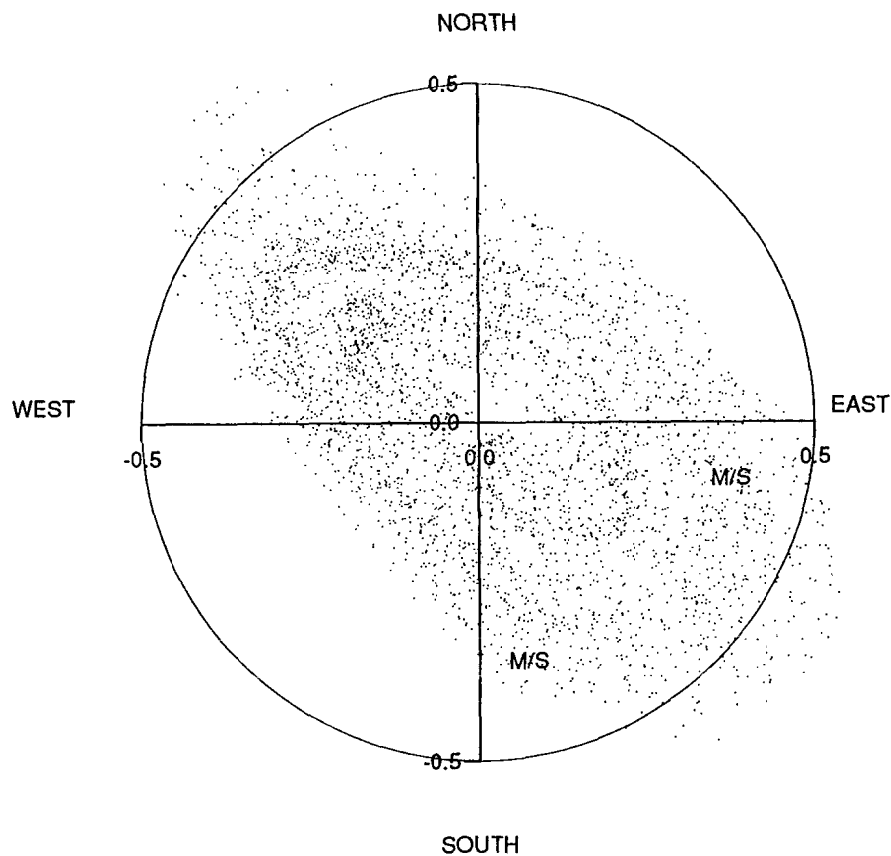
Position 54 06.00N 03 26.80W Meter Height(m) 10.5





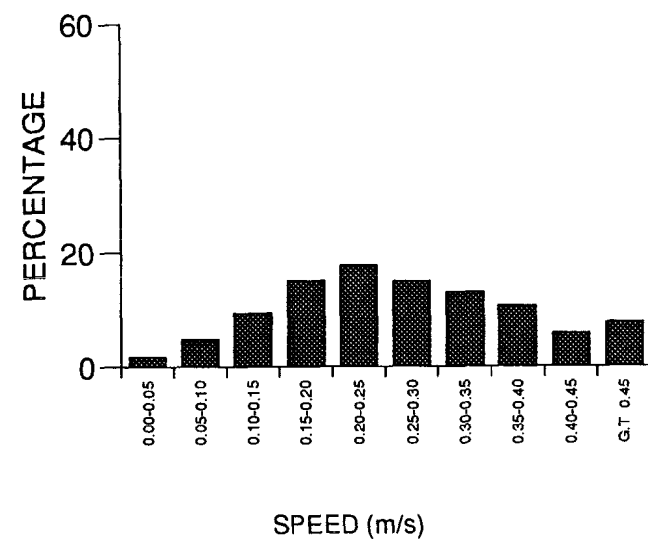
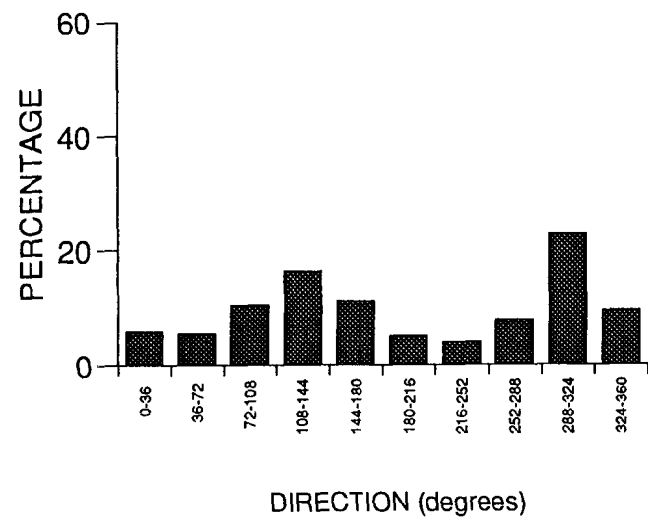
# SCATTER PLOT

Meter no. 0568 Rig no. 00569 Depth of water(m) 18.0  
Start/End 1993/09/02 AT 08:00:00 1993/09/25 AT 08:37:00  
Position 54 06.00N 03 26.80W Meter Height(m) 10.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0568 Rig no. 00569 Depth of water(m) 18.0  
Start/End 1993/09/02 AT 08:00:00 1993/09/25 AT 08:37:00  
Position 54 06.00N 03 26.80W Meter Height(m) 10.5

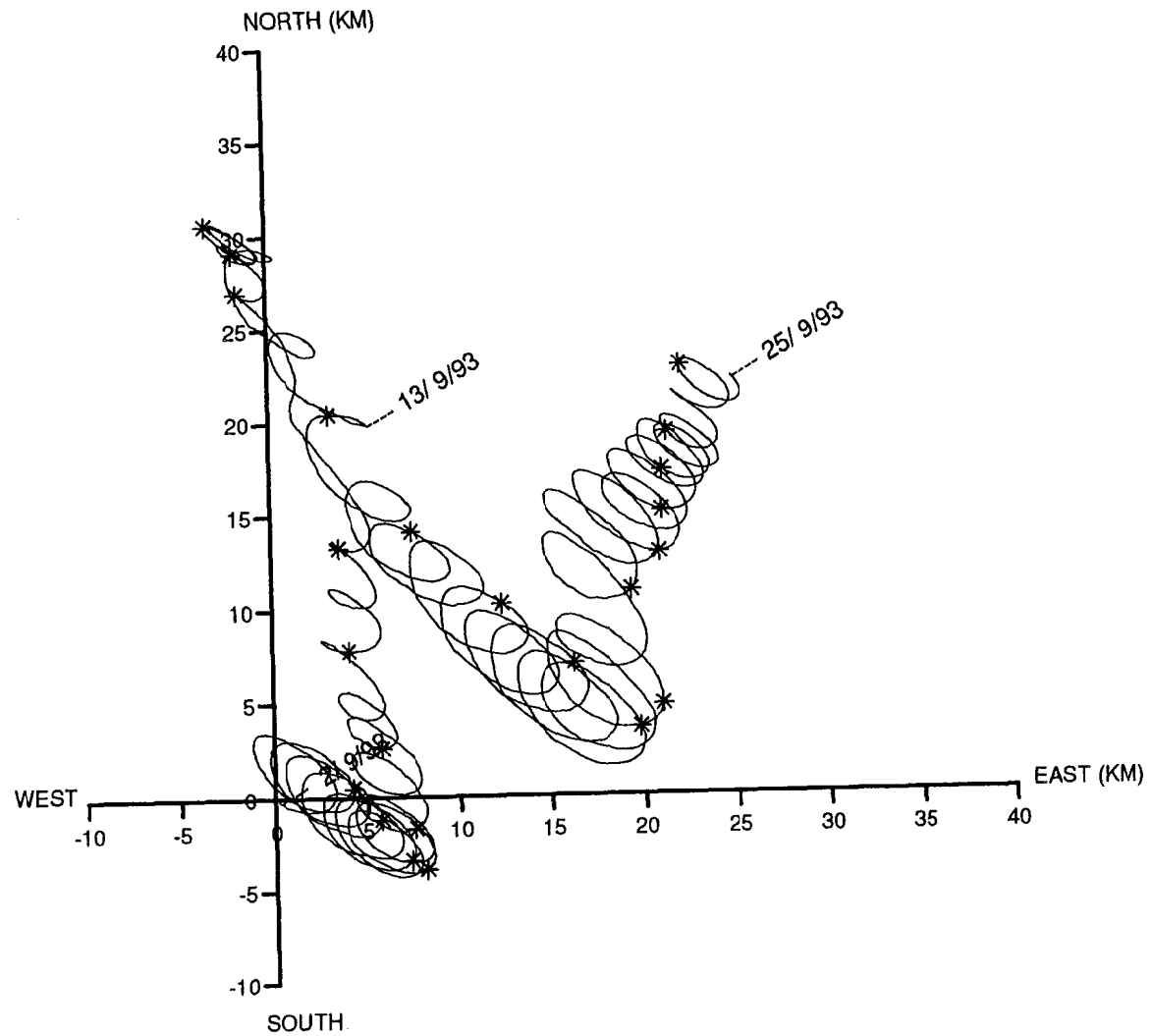


# VECTOR PLOT

Meter no. 0568 Rig no. 00569 Depth of water(m) 18.0

Start/End 1993/09/02 AT 08:00:00 1993/09/25 AT 08:37:00

Position 54 06.00N 03 26.80W Meter Height(m) 10.5

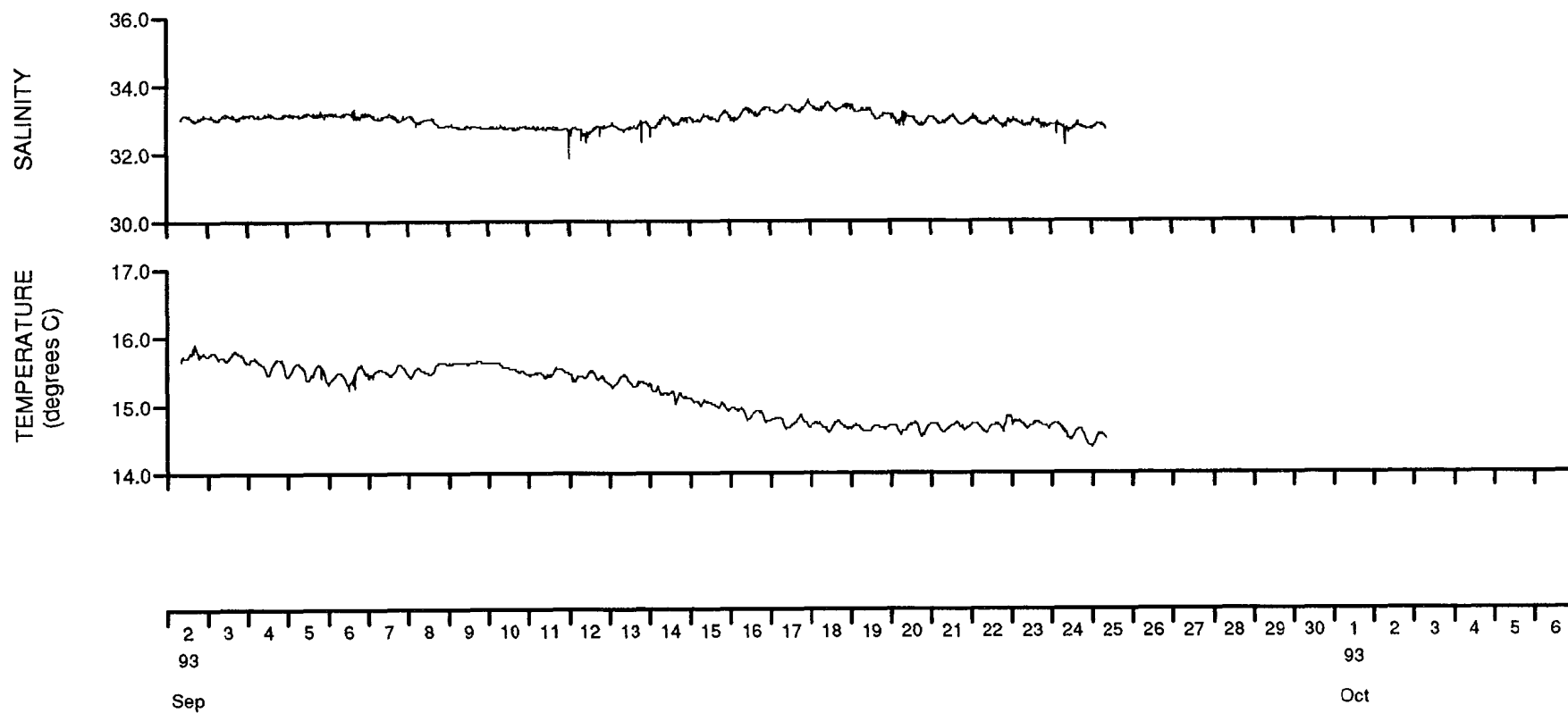


# TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 0568 Rig no. 00569 Depth of water(m) 18.0

Start/End 1993/09/02 AT 08:00:00 1993/09/25 AT 08:37:00

Position 54 06.00N 03 26.80W Meter Height(m) 10.5



# STICK TIME SERIES PLOT

Meter no. 0568 Rig no. 00569 Depth of water(m) 18.0

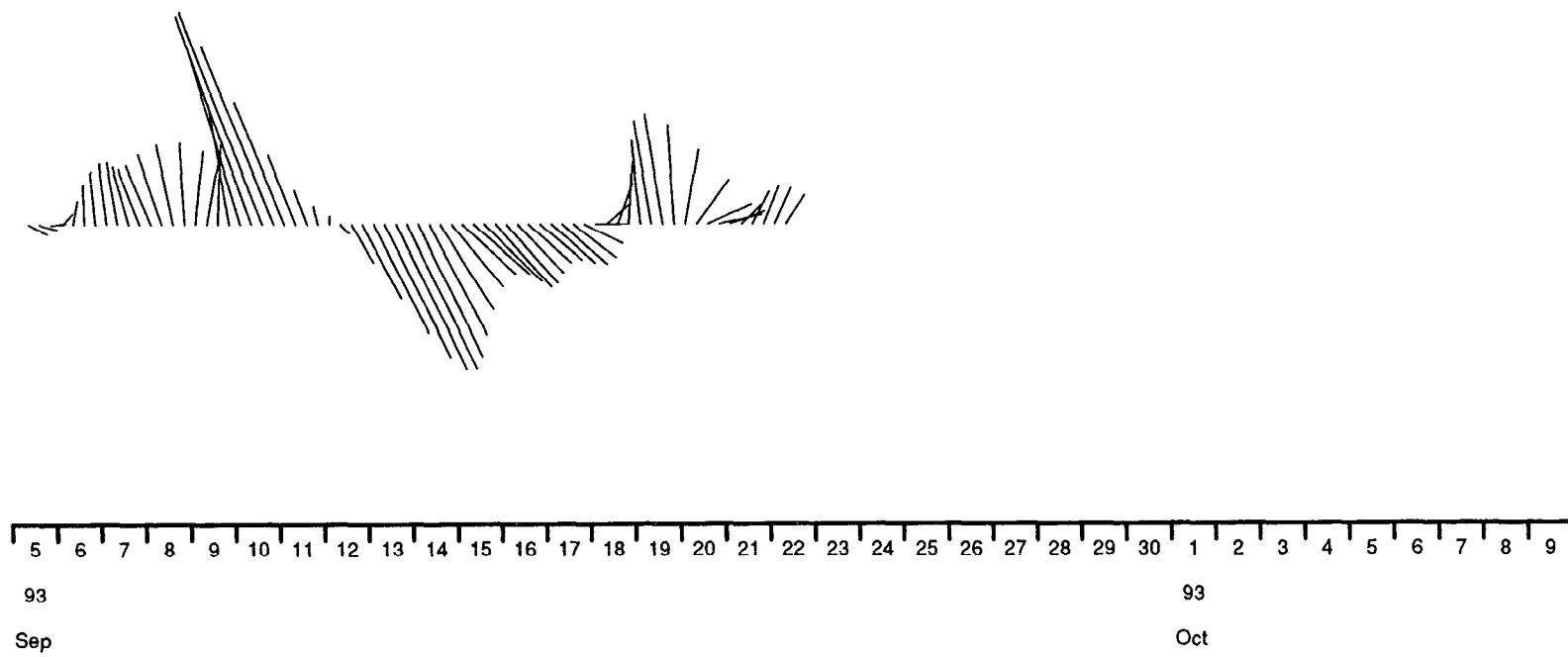
Start/End 1993/09/02 AT 08:00:00 1993/09/25 AT 08:37:00

Position 54 06.00N 03 26.80W Meter Height(m) 10.5

Filtered series

Scale 0.1 m/s

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# Statistics for aa0568t.00569s

	Mean	Variance	Standard deviation
Eastings	0.0125	0.48780251E-01	0.22086252E+00
Northings	0.0112	0.36188070E-01	0.19023162E+00
Speed	0.2676	0.13627896E-01	0.11673858E+00
Vector mean speed	0.0168		
Vector Mean Direction	48.3		

## Maximum ten values

Eastings					Northings				
0.534	0.531	0.524	0.523	0.520	0.500	0.497	0.492	0.488	0.474
0.520	0.519	0.519	0.517	0.514	0.472	0.462	0.457	0.456	0.452

## Minimum ten values

Eastings					Northings				
-0.424	-0.431	-0.433	-0.433	-0.436	-0.416	-0.417	-0.419	-0.427	-0.431
-0.436	-0.439	-0.443	-0.447	-0.465	-0.433	-0.450	-0.454	-0.467	-0.470

## Maximum speeds

0.614	0.611	0.611	0.611	0.609	0.609	0.606	0.603	0.597	0.597
0.595	0.595	0.595	0.592	0.589	0.589	0.586	0.586	0.583	0.583
0.583	0.583	0.583	0.581	0.578	0.578	0.575	0.575	0.572	0.572
0.572	0.569	0.567	0.567	0.564	0.561	0.558	0.558	0.558	0.555
0.555	0.555	0.553	0.553	0.553	0.553	0.550	0.550	0.550	0.550
0.550	0.550	0.547	0.547	0.547	0.547	0.547	0.544	0.544	0.544
0.544	0.541	0.541	0.539	0.539	0.536	0.536	0.536	0.533	0.533
0.530	0.530	0.530	0.530	0.530	0.530	0.527	0.527	0.527	0.525
0.525	0.525	0.525	0.525	0.525	0.522	0.522	0.522	0.519	0.519
0.519	0.516	0.516	0.516	0.516	0.513	0.513	0.513	0.513	0.513

## Variance ellipse statistics

Maximum variance	0.6762E-01	Direction	-52.3
Minimum variance	0.1735E-01	Direction	37.7
Total variance	0.8497E-01	Ratio of variances	0.2566E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		13.1	
Average direction. maxdir +PI/2 to maxdir -PI/2		178.5	

# **Filtered Statistics for aa0568t.00569sf**

	Mean	Variance	Standard deviation
Eastings	0.0107	0.70889934E-03	0.26625164E-01
Northings	0.0134	0.34446705E-02	0.58691315E-01
Speed	0.0556	0.13100294E-02	0.36194328E-01
Vector mean speed	0.0171		
Vector Mean Direction	38.6		

## Maximum ten values

Eastings					Northings				
0.053	0.053	0.050	0.049	0.044	0.158	0.154	0.133	0.127	0.091
0.044	0.042	0.042	0.041	0.040	0.090	0.081	0.076	0.073	0.062

## Minimum ten values

Eastings					Northings				
-0.015	-0.016	-0.018	-0.019	-0.021	-0.047	-0.047	-0.056	-0.064	-0.082
-0.038	-0.038	-0.054	-0.056	-0.062	-0.083	-0.099	-0.100	-0.108	-0.108

## Maximum speeds

0.169	0.164	0.143	0.132	0.121	0.120	0.111	0.110	0.099	0.094
0.091	0.091	0.082	0.077	0.076	0.074	0.063	0.063	0.062	0.062
0.061	0.061	0.061	0.060	0.059	0.056	0.056	0.055	0.055	0.055
0.055	0.052	0.050	0.048	0.047	0.046	0.045	0.045	0.045	0.044
0.044	0.043	0.042	0.041	0.041	0.039	0.036	0.033	0.033	0.032
0.032	0.029	0.029	0.029	0.027	0.027	0.027	0.025	0.024	0.023
0.023	0.018	0.016	0.014	0.014	0.011	0.011	0.009	0.006	

## Variance ellipse statistics

Maximum variance	0.4069E-02	Direction	-23.3
Minimum variance	0.8483E-04	Direction	66.7
Total variance	0.4154E-02	Ratio of variances	0.2085E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		25.9	
Average direction. maxdir +PI/2 to maxdir -PI/2		153.3	

**Meter information details for 6443**

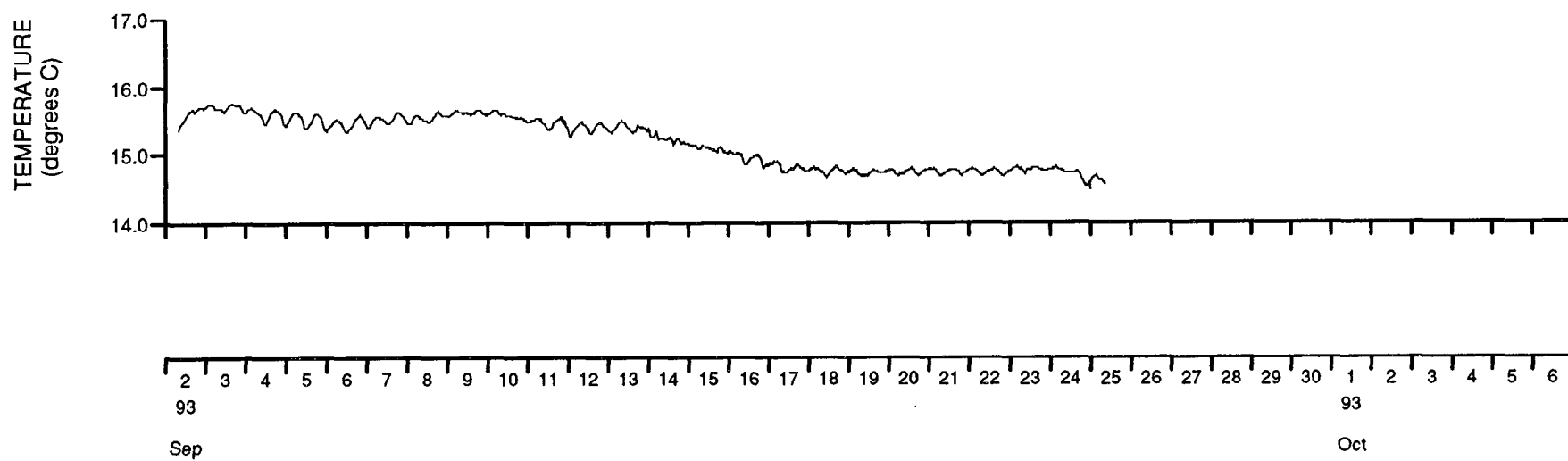
Rig No	: 00569
Meter No	: 6443
Recording interval	: 600.0 seconds
Meter height from bottom	: 3.5 m
Position of meter on rig	: B
Meter type	: AA
Meter started	: 01-SEP-93 12:20:00
Meter stopped	: 25-SEP-93 09:00:00
Period switched on	: 23.9 days
Period of good data	: 0.0 days
Total number of scans	: 3316
Timing error	: None
Comments	: Rotor restricted by growth on recovery. 22 hours data only (up to 3/9(0650)), thereafter current speed fails. Conductivity failed throughout.

# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 6443 Rig no. 00569 Depth of water(m) 22.0

Start/End 1993/09/02 AT 08:00:00 1993/09/25 AT 08:37:00

Position 54 06.00N 03 26.80W Meter Height(m) 3.5





**Rig information details for 00568**

Position Latitude	:	54 07.90N
Position Longitude	:	03 27.04W
Water depth	:	18.0 m
Deployed on cruise	:	P.Madog
Recovered on cruise	:	CH106
Site name identification	:	Y
Magnetic deviation	:	6.7 degrees west
Rig deployed on	:	01-SEP-93 18:50:00
Rig recovered on	:	25-SEP-93 07:00:00
Period of deployment	:	23.5 days
Comments	:	None

**Meter information details for 0001**

Rig No	: 00568
Meter No	: 0001
Recording interval	: 600.0 seconds
Meter height from bottom	: 0.5 m
Meter type	: DP
Meter started	: 01-SEP-93 16:59:33
Meter stopped	: 25-SEP-93 07:19:25
Period switched on	: 23.6 days
Period of good data	: 23.5 days
Total number of scans	: 3385
Timing error	: 8 seconds fast
Comments	: None

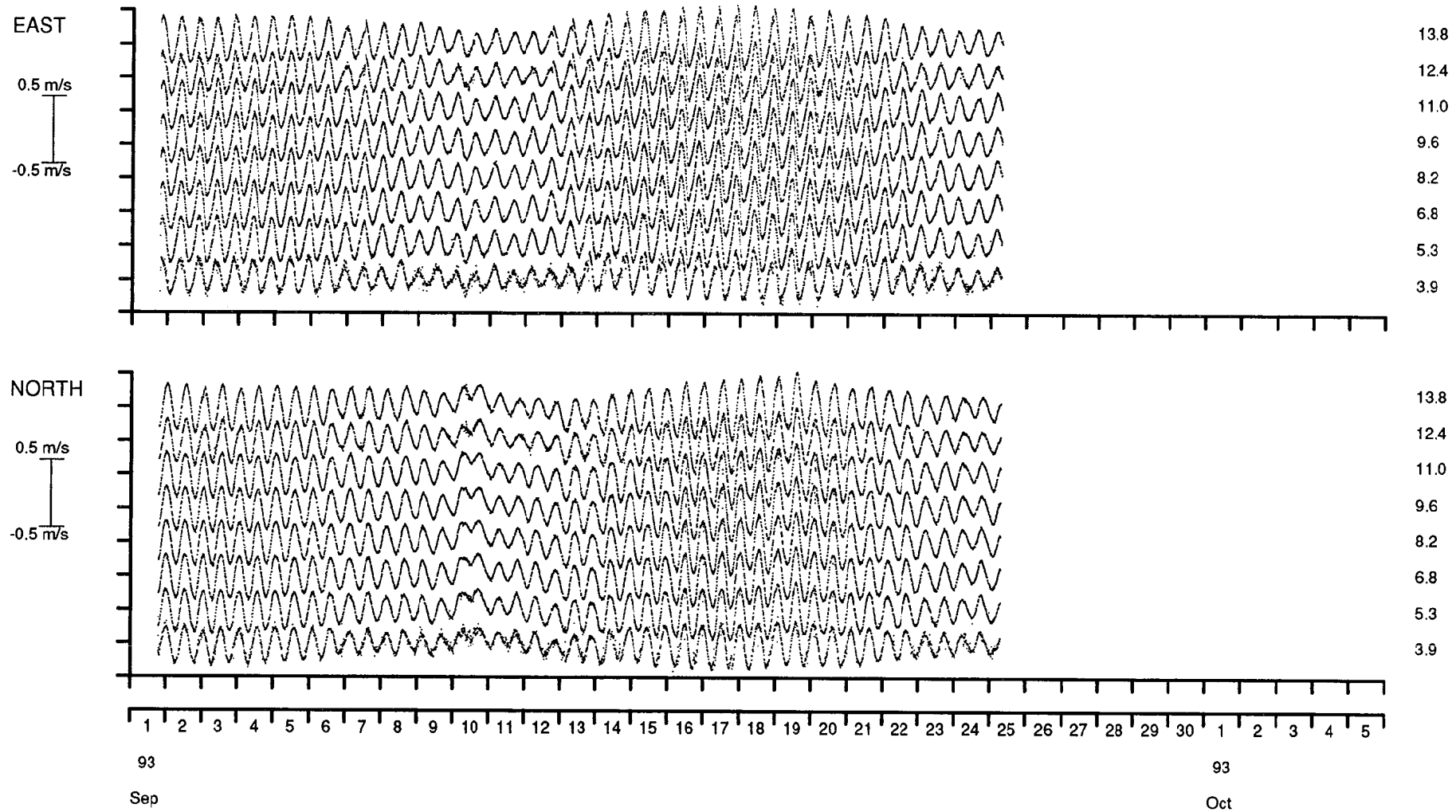
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00568 Depth of water(m) 18.0

Start/End 1993/09/01 AT 18:50:00 1993/09/25 AT 07:00:00

Position 54 07.90N 03 27.04W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)



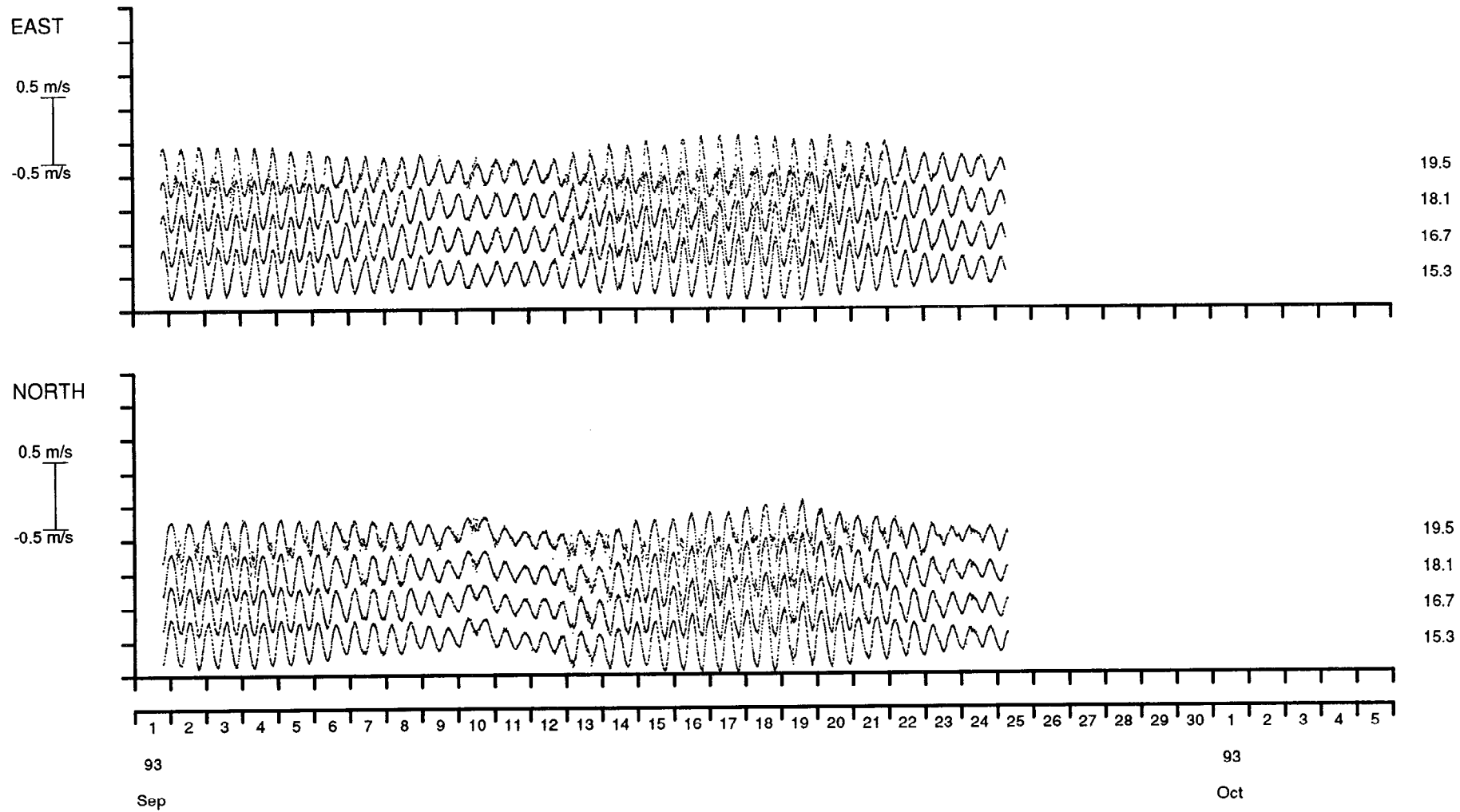
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00568 Depth of water(m) 18.0

Start/End 1993/09/01 AT 18:50:00 1993/09/25 AT 07:00:00

Position 54 07.90N 03 27.04W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)

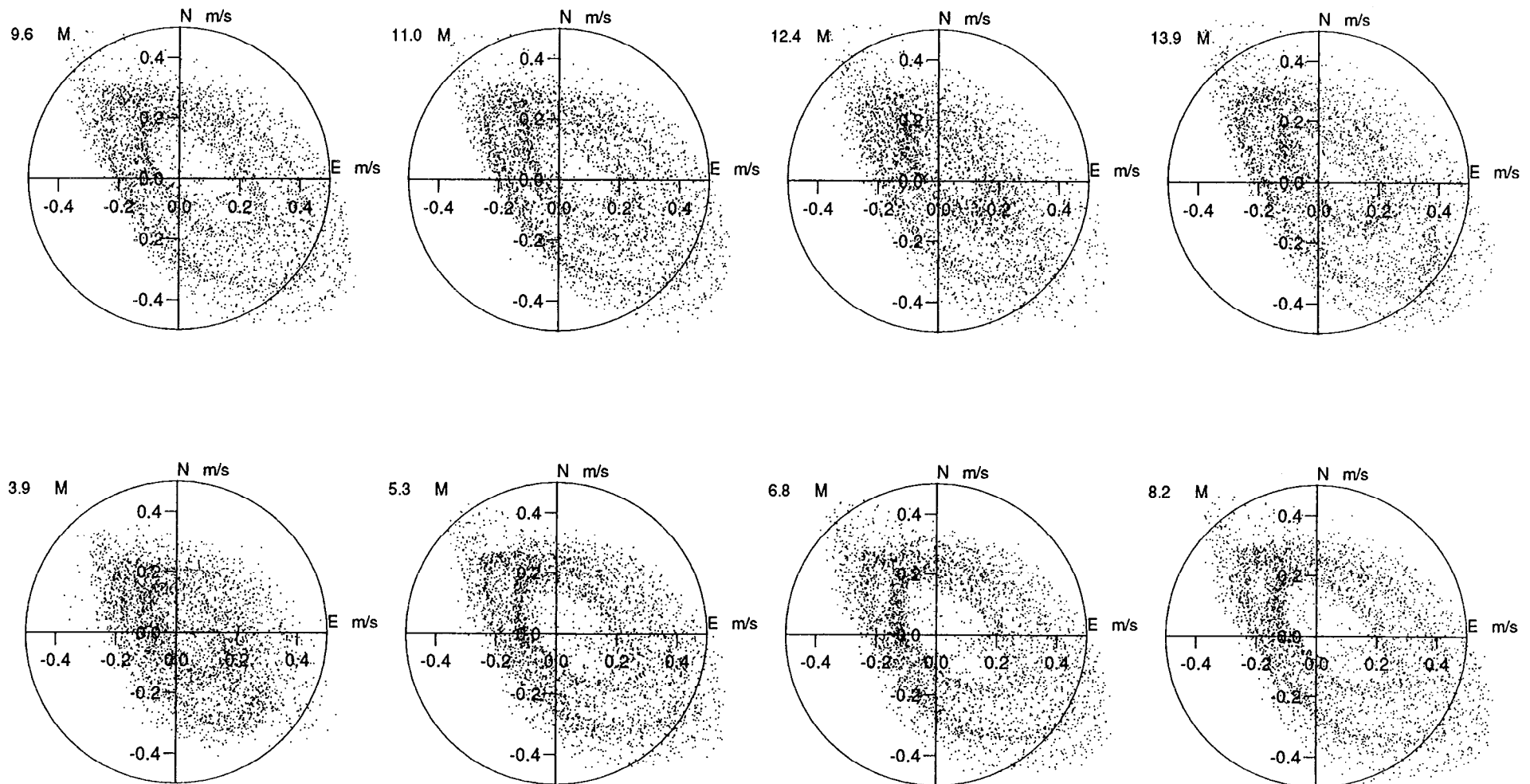


# SCATTER PLOT

Meter no. 0001 Rig no. 00568 Depth of water(m) 18.0

Start/End 1993/09/01 AT 18:50:00 1993/09/25 AT 07:00:00

Position 54 07.90N 03 27.04W 3.91 Base Ht 1.42 Gap Ht

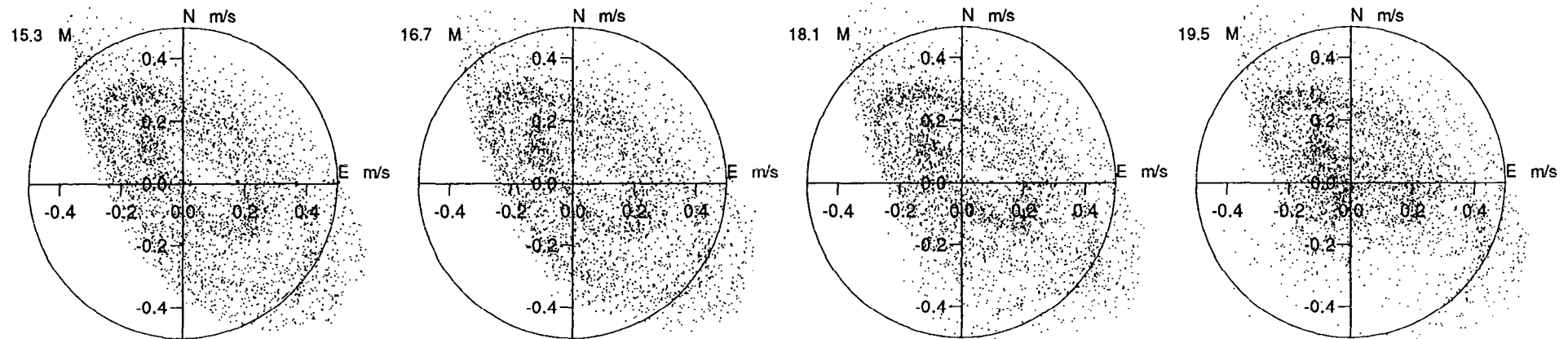


# SCATTER PLOT

Meter no. 0001 Rig no. 00568 Depth of water(m) 18.0

Start/End 1993/09/01 AT 18:50:00 1993/09/25 AT 07:00:00

Position 54 07.90N 03 27.04W 3.91 Base Ht 1.42 Gap Ht



# STICK TIME SERIES PLOT

Meter no. 0001 Rig no. 00568 Depth of water(m) 18.0

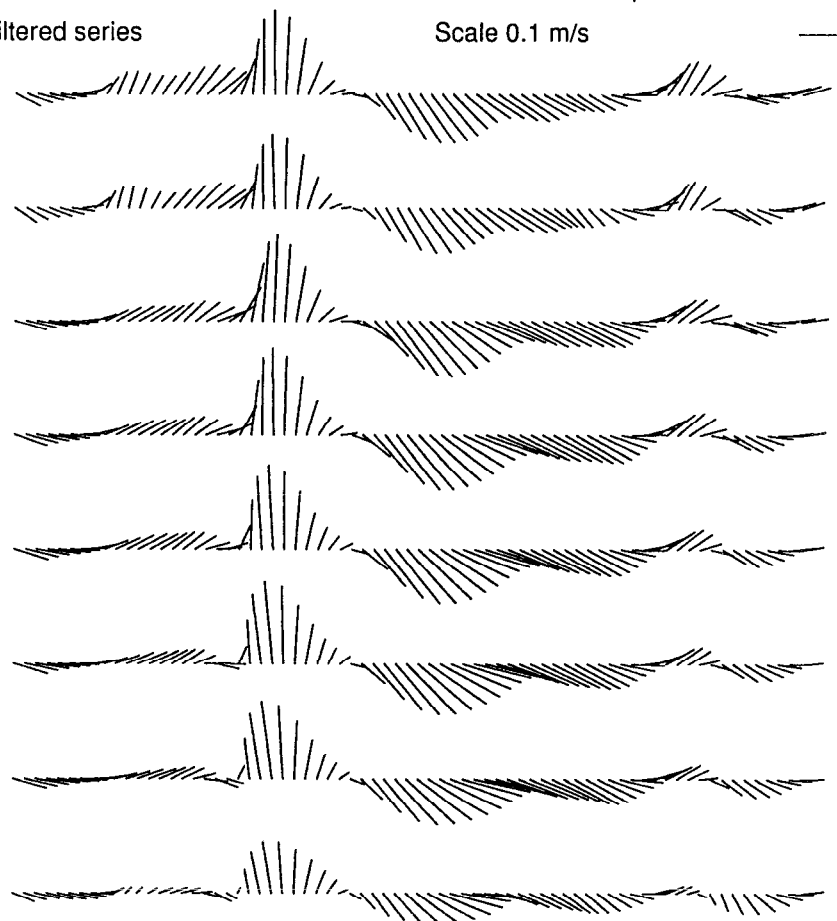
Start/End 1993/09/01 AT 18:50:00 1993/09/25 AT 07:00:00

Position 54 07.90N 03 27.04W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

Bin Ht (m)



4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 1 2 3 4 5 6 7 8

93

93

Sep

Oct

# STICK TIME SERIES PLOT

Meter no. 0001 Rig no. 00568 Depth of water(m) 18.0

Start/End 1993/09/01 AT 18:50:00 1993/09/25 AT 07:00:00

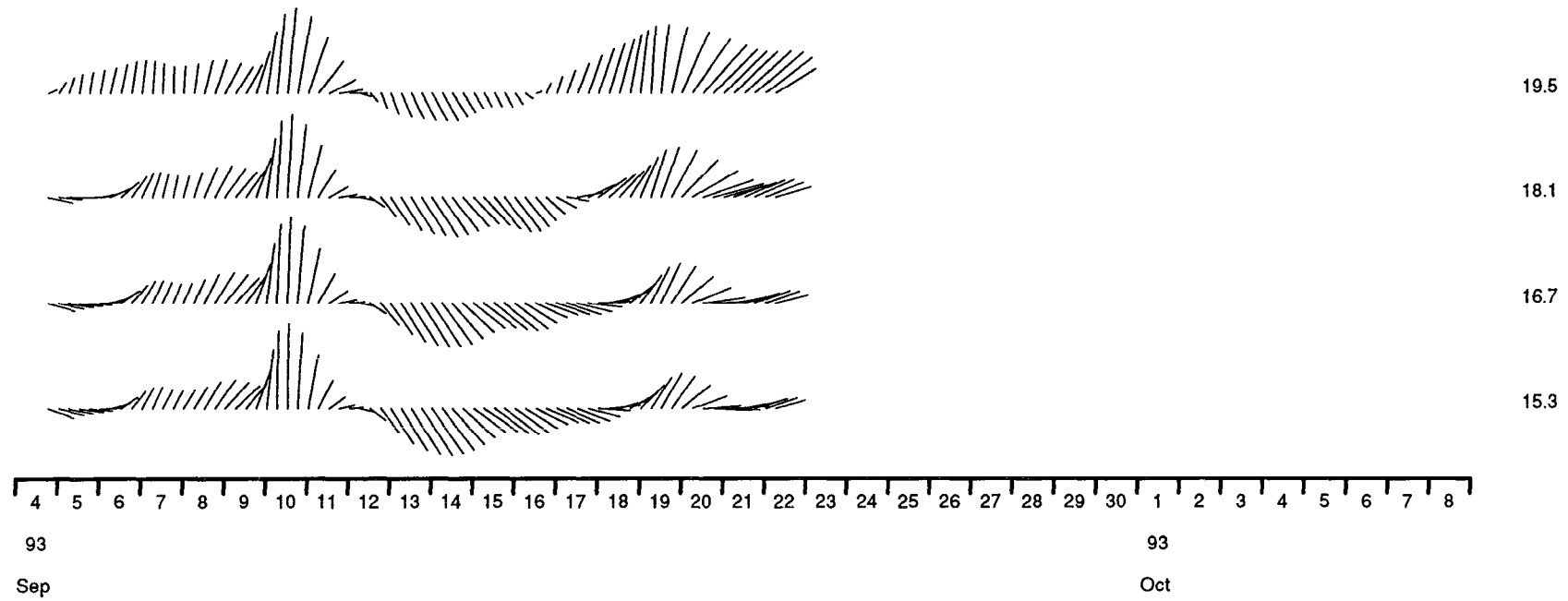
Position 54 07.90N 03 27.04W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

—

Bin Ht (m)





## Statistics for dp0001.00568

### Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.045	101.2	0.0413	-45.4	0.0146	44.6
2	5.3	0.064	95.3	0.0627	-49.9	0.0217	40.1
3	6.8	0.065	93.5	0.0690	-49.8	0.0234	40.2
4	8.2	0.065	92.3	0.0718	-49.2	0.0235	40.8
5	9.6	0.067	91.7	0.0714	-48.8	0.0226	41.2
6	11.0	0.068	91.1	0.0678	-48.6	0.0209	41.4
7	12.4	0.043	91.5	0.0607	-43.1	0.0159	46.9
8	13.8	0.052	86.4	0.0711	-44.8	0.0192	45.2
9	15.3	0.058	83.2	0.0759	-46.0	0.0211	44.0
10	16.7	0.060	80.9	0.0745	-46.7	0.0211	43.3
11	18.1	0.057	74.6	0.0693	-47.7	0.0213	42.3
12	19.5	0.057	43.1	0.0565	-54.5	0.0197	35.5

## Statistics for dp0001.00568

### Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.045	99.8	0.0019	-33.1	0.0003	56.9
2	5.3	0.064	95.5	0.0039	-32.5	0.0003	57.5
3	6.8	0.065	93.6	0.0043	-29.6	0.0003	60.4
4	8.2	0.066	92.5	0.0045	-26.7	0.0003	63.3
5	9.6	0.067	91.9	0.0046	-23.5	0.0002	66.5
6	11.0	0.068	90.8	0.0046	-20.3	0.0001	69.7
7	12.4	0.045	87.2	0.0034	-15.3	0.0002	74.7
8	13.8	0.052	81.8	0.0042	-15.3	0.0002	74.7
9	15.3	0.058	78.9	0.0048	-13.8	0.0002	76.2
10	16.7	0.059	75.7	0.0048	-12.5	0.0003	77.5
11	18.1	0.057	66.2	0.0050	-6.2	0.0006	83.8
12	19.5	0.064	33.1	0.0049	6.4	0.0009	96.4

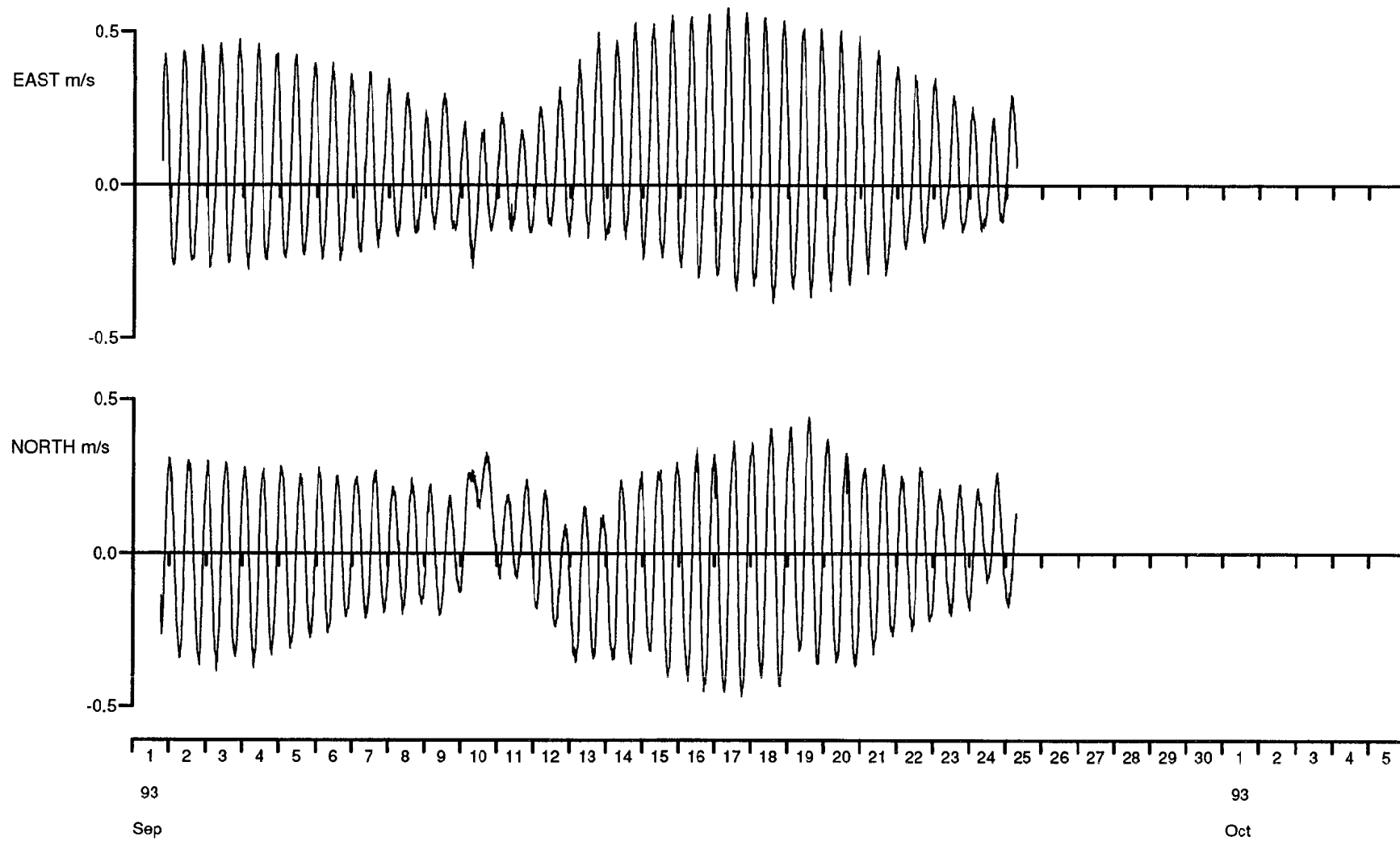
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00568 Depth of water(m) 18.0

Start/End 1993/09/01 AT 18:50:00 1993/09/25 AT 07:00:00

Position 54 07.90N 03 27.04W 3.91 Base Ht 1.42 Gap Ht 6.8 Bin Ht (m)

Bin closest to depth average



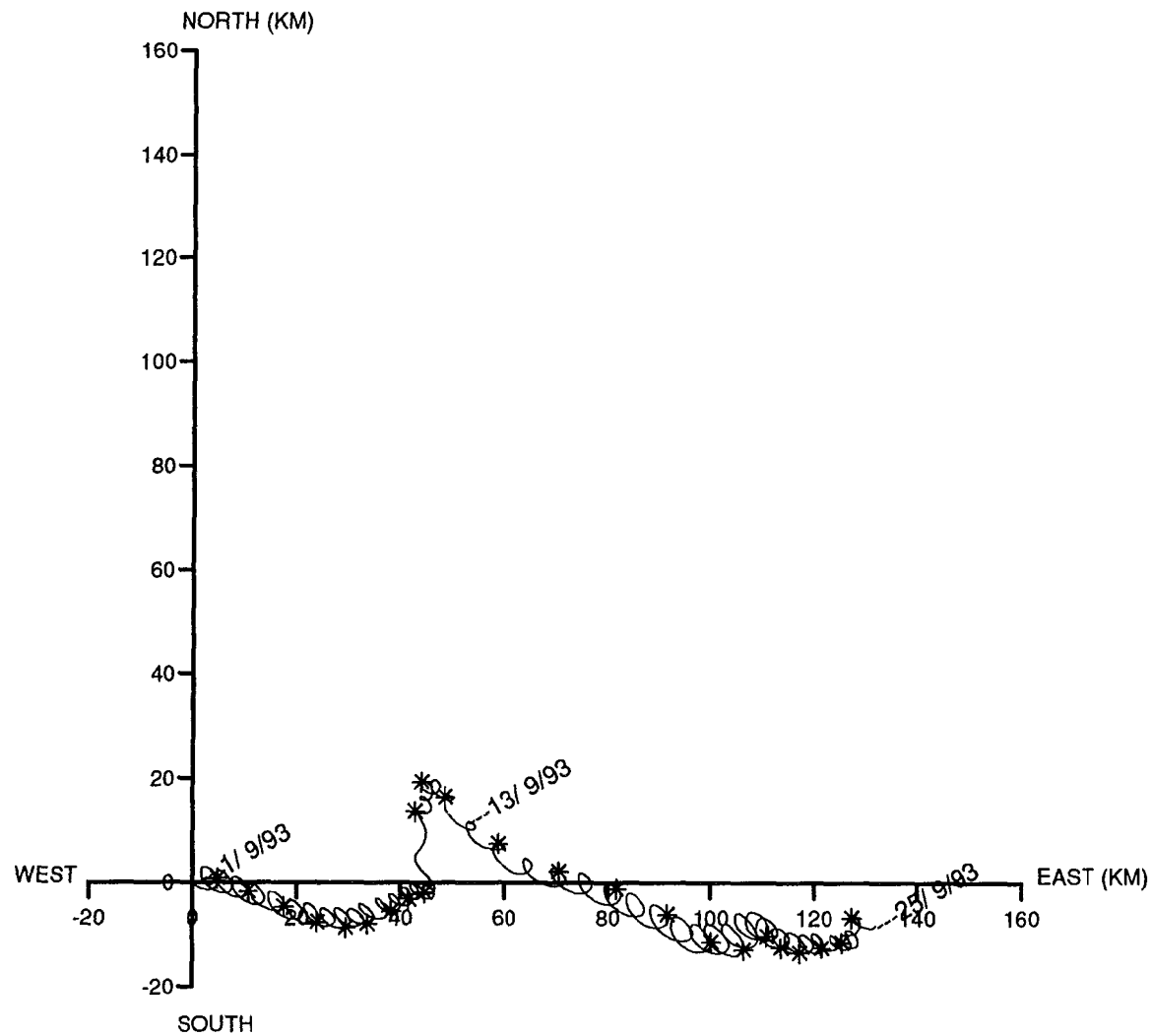
# VECTOR PLOT

Meter no. 0001 Rig no. 00568 Depth of water(m) 18.0

Start/End 1993/09/01 AT 18:50:00 1993/09/25 AT 07:00:00

Position 54 07.90N 03 27.04W 3.91 Base Ht 1.42 Gap Ht 6.8 Bin Ht (m)

Bin closest to depth average



## Statistics for dp0001.00568s3

Doppler bin number 3

	Mean	Variance	Standard deviation
Eastings	0.0649	0.50010581E-01	0.22363044E+00
Northings	-0.0039	0.42418309E-01	0.20595706E+00
Speed	0.2864	0.14617203E-01	0.12090162E+00
Vector mean speed	0.0650		
Vector Mean Direction	93.5		

### Maximum ten values

Eastings					Northings				
0.578	0.576	0.568	0.564	0.562	0.443	0.437	0.434	0.429	0.428
0.560	0.558	0.557	0.556	0.555	0.427	0.422	0.417	0.413	0.412

### Minimum ten values

Eastings					Northings				
-0.340	-0.344	-0.345	-0.351	-0.355	-0.440	-0.443	-0.444	-0.445	-0.450
-0.361	-0.363	-0.364	-0.365	-0.385	-0.451	-0.452	-0.453	-0.458	-0.467

### Maximum speeds

0.663	0.662	0.659	0.648	0.647	0.642	0.642	0.642	0.641	0.632
0.631	0.630	0.630	0.628	0.625	0.625	0.623	0.621	0.621	0.619
0.616	0.615	0.614	0.613	0.613	0.610	0.608	0.607	0.606	0.606
0.605	0.603	0.603	0.603	0.602	0.599	0.598	0.597	0.597	0.596
0.596	0.595	0.594	0.593	0.593	0.592	0.591	0.591	0.590	0.590
0.589	0.589	0.588	0.588	0.587	0.586	0.585	0.584	0.584	0.581
0.581	0.581	0.581	0.578	0.577	0.577	0.575	0.575	0.573	0.570
0.570	0.568	0.567	0.565	0.565	0.563	0.563	0.562	0.561	0.560
0.560	0.559	0.559	0.559	0.557	0.557	0.556	0.556	0.555	0.554
0.553	0.553	0.552	0.552	0.552	0.549	0.549	0.548	0.548	0.547

## Variance ellipse statistics

Maximum variance	0.6900E-01	Direction	-49.8
Minimum variance	0.2343E-01	Direction	40.2
Total variance	0.9243E-01	Ratio of variances	0.3395E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		19.3	
Average direction. maxdir +PI/2 to maxdir -PI/2		177.0	

## Filtered Statistics for dp0001.00568s3f

Doppler bin number 3

	Mean	Variance	Standard deviation
Eastings	0.0648	0.12847628E-02	0.35843588E-01
Northings	-0.0040	0.33336387E-02	0.57737671E-01
Speed	0.0856	0.14661137E-02	0.38289864E-01
Vector mean speed	0.0649		
Vector Mean Direction	93.6		

### Maximum ten values

Eastings					Northings				
0.131	0.131	0.129	0.127	0.125	0.181	0.170	0.154	0.131	0.097
0.121	0.119	0.117	0.113	0.109	0.086	0.053	0.037	0.037	0.034

### Minimum ten values

Eastings					Northings				
0.023	0.017	0.017	0.017	0.015	-0.053	-0.054	-0.055	-0.071	-0.077
0.008	-0.005	-0.007	-0.018	-0.020	-0.087	-0.101	-0.101	-0.110	-0.111

### Maximum speeds

0.182	0.170	0.156	0.155	0.154	0.154	0.149	0.147	0.142	0.135
0.131	0.131	0.129	0.124	0.122	0.120	0.118	0.116	0.115	0.115
0.115	0.111	0.104	0.103	0.097	0.093	0.088	0.083	0.079	0.075
0.075	0.072	0.071	0.071	0.071	0.070	0.070	0.070	0.069	0.069
0.068	0.067	0.067	0.067	0.066	0.066	0.063	0.062	0.060	0.059
0.057	0.056	0.056	0.056	0.056	0.055	0.052	0.052	0.052	0.052
0.051	0.051	0.050	0.048	0.045	0.044	0.041	0.039	0.038	0.036
0.028									

## Variance ellipse statistics

Maximum variance	0.4306E-02	Direction	-29.6
Minimum variance	0.3123E-03	Direction	60.4
Total variance	0.4618E-02	Ratio of variances	0.7253E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		54.5	
Average direction. maxdir +PI/2 to maxdir -PI/2		131.7	

**Rig information details for 00571**

Position Latitude	:	54 07.28N
Position Longitude	:	03 26.96W
Water depth	:	22.0 m
Deployed on cruise	:	CH106
Recovered on cruise	:	CH107
Site name identification	:	Y
Magnetic deviation	:	6.7 degrees west
Rig deployed on	:	25-SEP-93 10:50:00
Rig recovered on	:	27-OCT-93 11:15:00
Period of deployment	:	32.0 days
Comments	:	None

**Meter information details for 0568**

Rig No	: 00571
Meter No	: 0568
Recording interval	: 600.0 seconds
Meter height from bottom	: 10.5 m
Position of meter on rig	: T
Meter type	: AA
Meter started	: 25-SEP-93 09:50:00
Meter stopped	: 27-OCT-93 14:40:00
Period switched on	: 32.2 days
Period of good data	: 32.0 days
Total number of scans	: 4610
Timing error	: None
Comments	: None

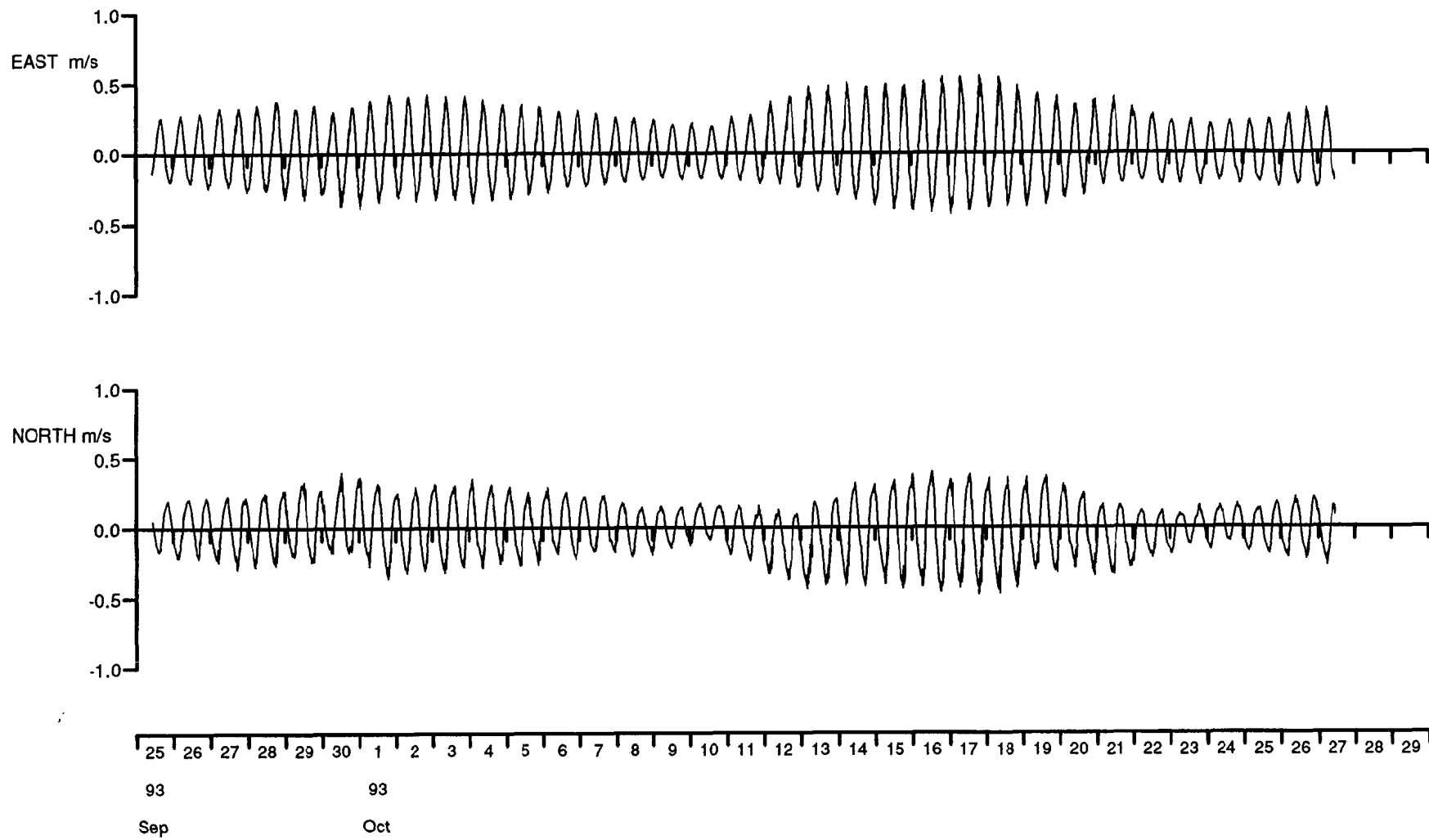


# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0568 Rig no. 00571 Depth of water(m) 22.0

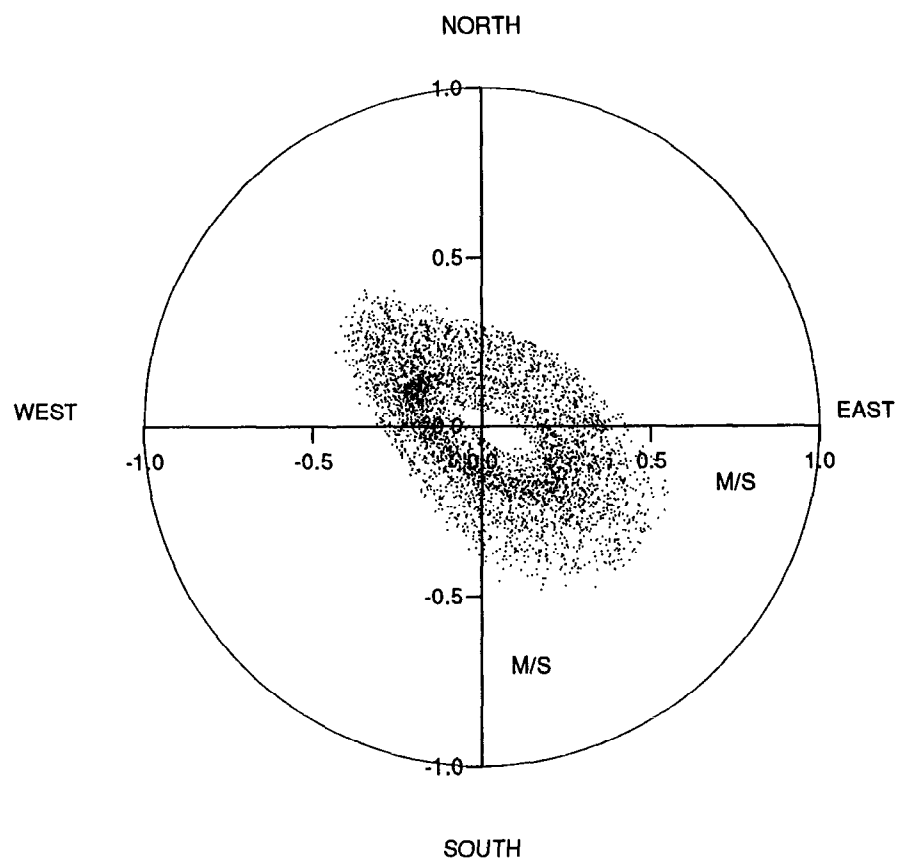
Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00

Position 54 07.28N 03 26.96W Meter Height(m) 10.5



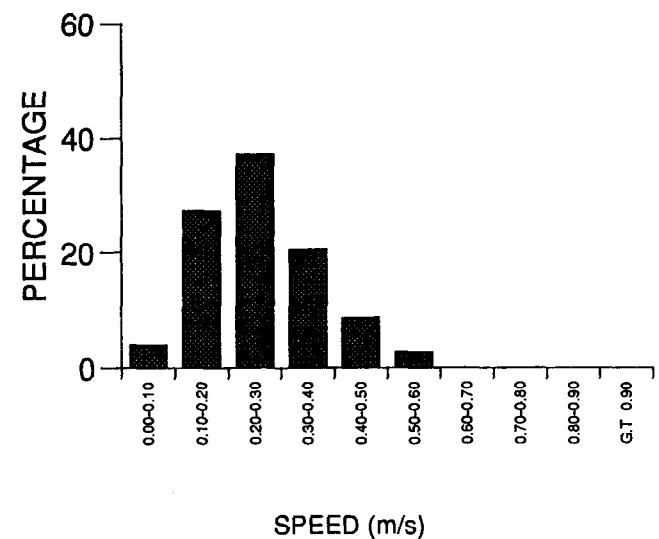
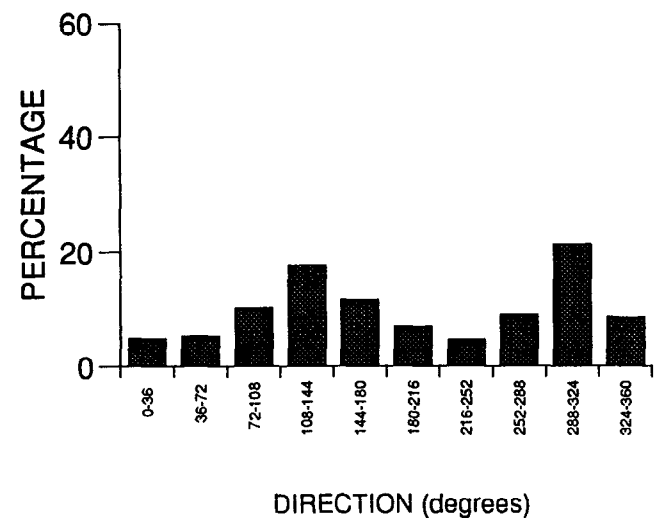
# SCATTER PLOT

Meter no. 0568 Rig no. 00571 Depth of water(m) 22.0  
 Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00  
 Position 54 07.28N 03 26.96W Meter Height(m) 10.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 0568 Rig no. 00571 Depth of water(m) 22.0  
 Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00  
 Position 54 07.28N 03 26.96W Meter Height(m) 10.5

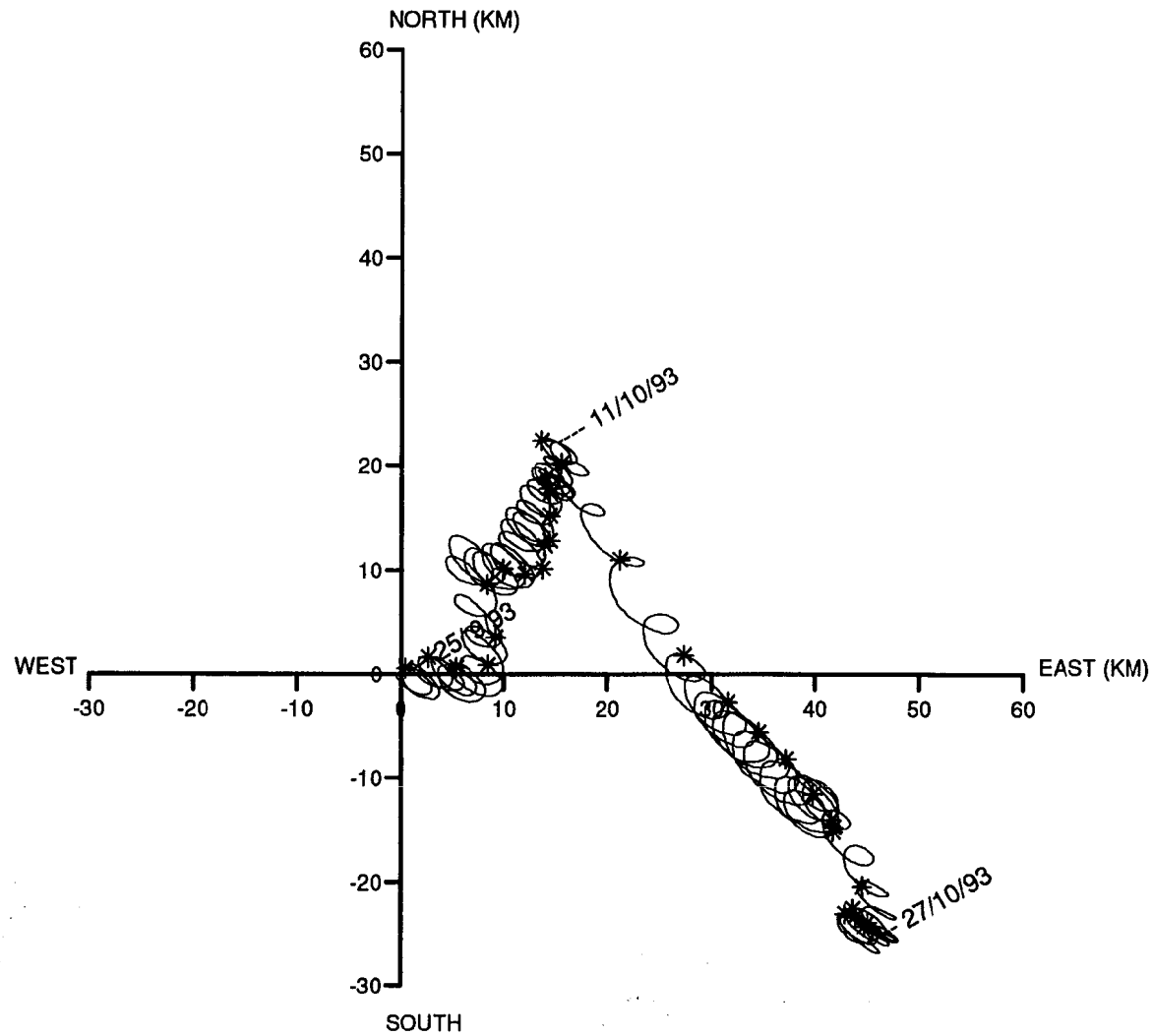


# VECTOR PLOT

Meter no. 0568 Rig no. 00571 Depth of water(m) 22.0

Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00

Position 54 07.28N 03 26.96W Meter Height(m) 10.5

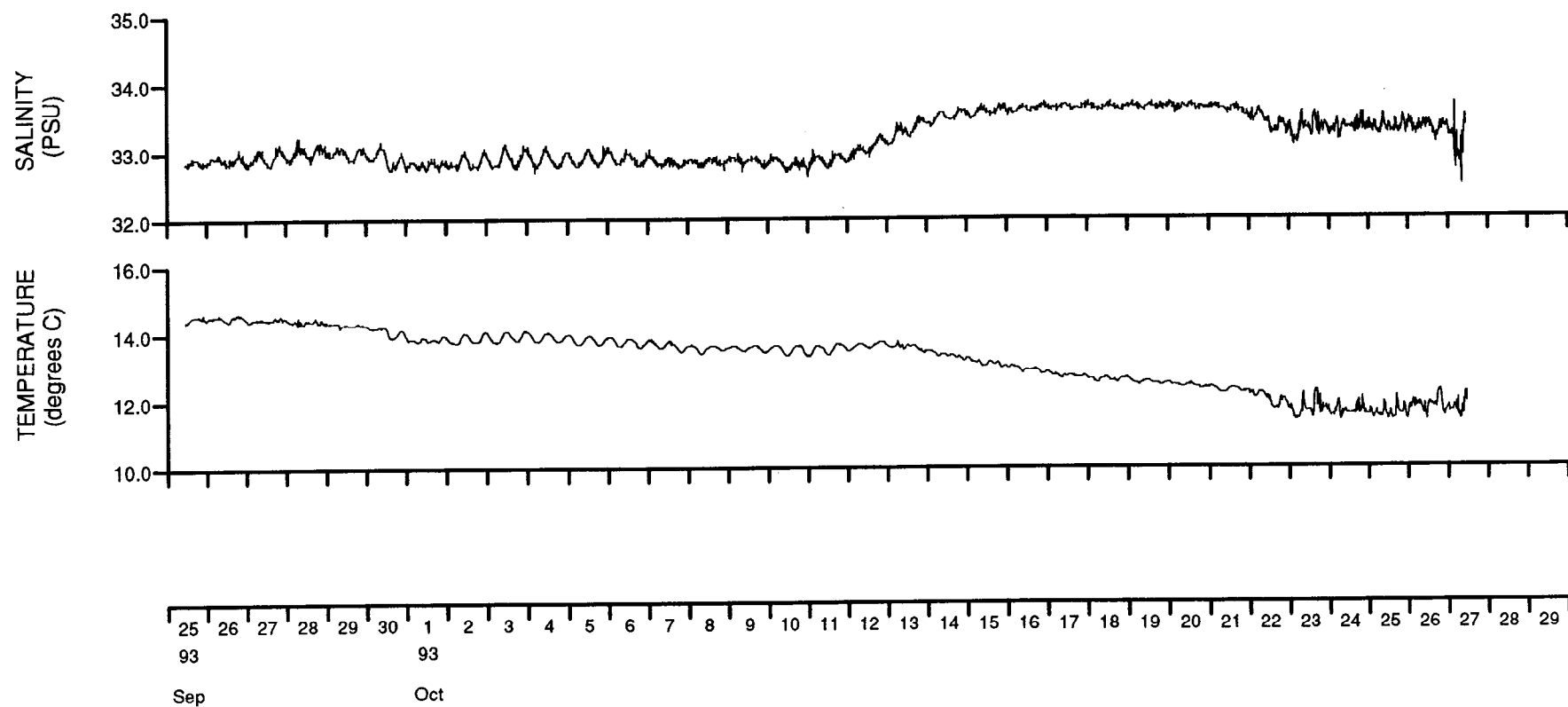


# TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 0568 Rig no. 00571 Depth of water(m) 22.0

Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00

Position 54 07.28N 03 26.96W Meter Height(m) 10.5



# Statistics for aa0568t.00571s

	Mean	Variance	Standard deviation
Eastings	0.0163	0.45238283E-01	0.21269293E+00
Northings	-0.0093	0.33494063E-01	0.18301384E+00
Speed	0.2605	0.11207143E-01	0.10586379E+00
Vector mean speed	0.0188		
Vector Mean Direction	119.6		

## Maximum ten values

Eastings					Northings				
0.547	0.540	0.540	0.537	0.534	0.398	0.397	0.390	0.379	0.378
0.533	0.521	0.521	0.517	0.512	0.377	0.376	0.374	0.370	0.367

## Minimum ten values

Eastings					Northings				
-0.395	-0.397	-0.397	-0.401	-0.404	-0.436	-0.439	-0.443	-0.447	-0.448
-0.405	-0.407	-0.409	-0.420	-0.433	-0.455	-0.466	-0.470	-0.475	-0.480

## Maximum speeds

0.595	0.589	0.589	0.586	0.586	0.583	0.581	0.581	0.581	0.578
0.578	0.578	0.575	0.575	0.575	0.575	0.572	0.569	0.569	0.567
0.564	0.564	0.564	0.564	0.561	0.561	0.558	0.558	0.555	0.555
0.555	0.553	0.553	0.553	0.550	0.550	0.550	0.550	0.547	0.547
0.544	0.544	0.544	0.544	0.544	0.544	0.539	0.539	0.539	0.539
0.539	0.536	0.536	0.536	0.536	0.536	0.533	0.530	0.530	0.530
0.530	0.530	0.527	0.527	0.527	0.527	0.525	0.525	0.525	0.525
0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.522	0.519
0.519	0.519	0.519	0.519	0.516	0.516	0.516	0.516	0.516	0.516
0.516	0.516	0.516	0.516	0.513	0.513	0.513	0.511	0.511	0.511

## Variance ellipse statistics

Maximum variance	0.6223E-01	Direction	-52.4
Minimum variance	0.1650E-01	Direction	37.6
Total variance	0.7873E-01	Ratio of variances	0.2652E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		10.9	
Average direction. maxdir +PI/2 to maxdir -PI/2		182.2	

# Filtered Statistics for aa0568t.00571sf

	Mean	Variance	Standard deviation
Eastings	0.0174	0.36340099E-03	0.19063080E-01
Northings	-0.0103	0.19150904E-02	0.43761745E-01
Speed	0.0414	0.96394040E-03	0.31047389E-01
Vector mean speed	0.0202		
Vector Mean Direction	120.7		

## Maximum ten values

Eastings					Northings				
0.074	0.072	0.070	0.065	0.060	0.078	0.078	0.065	0.060	0.047
0.058	0.051	0.049	0.046	0.046	0.039	0.038	0.035	0.034	0.034

## Minimum ten values

Eastings					Northings				
-0.006	-0.006	-0.007	-0.011	-0.012	-0.076	-0.076	-0.078	-0.091	-0.096
-0.013	-0.014	-0.015	-0.017	-0.020	-0.111	-0.114	-0.125	-0.126	-0.130

## Maximum speeds

0.150	0.145	0.143	0.131	0.126	0.112	0.103	0.092	0.091	0.088
0.086	0.081	0.080	0.078	0.077	0.072	0.067	0.067	0.066	0.060
0.058	0.057	0.054	0.051	0.049	0.049	0.049	0.048	0.046	0.045
0.041	0.041	0.040	0.039	0.039	0.039	0.038	0.038	0.037	0.036
0.035	0.035	0.035	0.035	0.035	0.034	0.033	0.033	0.032	0.032
0.032	0.031	0.031	0.030	0.030	0.030	0.030	0.029	0.028	0.028
0.028	0.028	0.028	0.027	0.027	0.027	0.027	0.027	0.027	0.027
0.026	0.026	0.026	0.025	0.025	0.024	0.022	0.022	0.022	0.022
0.022	0.022	0.021	0.021	0.020	0.020	0.019	0.019	0.018	0.018
0.017	0.015	0.014	0.014	0.014	0.014	0.013	0.013	0.013	0.012

## Variance ellipse statistics

Maximum variance	0.2212E-02	Direction	-21.8
Minimum variance	0.6613E-04	Direction	68.2
Total variance	0.2278E-02	Ratio of variances	0.2989E-01
Average direction. maxdir -PI/2 to maxdir +PI/2	36.2		
Average direction. maxdir +PI/2 to maxdir -PI/2	160.4		

**Meter information details for 6443**

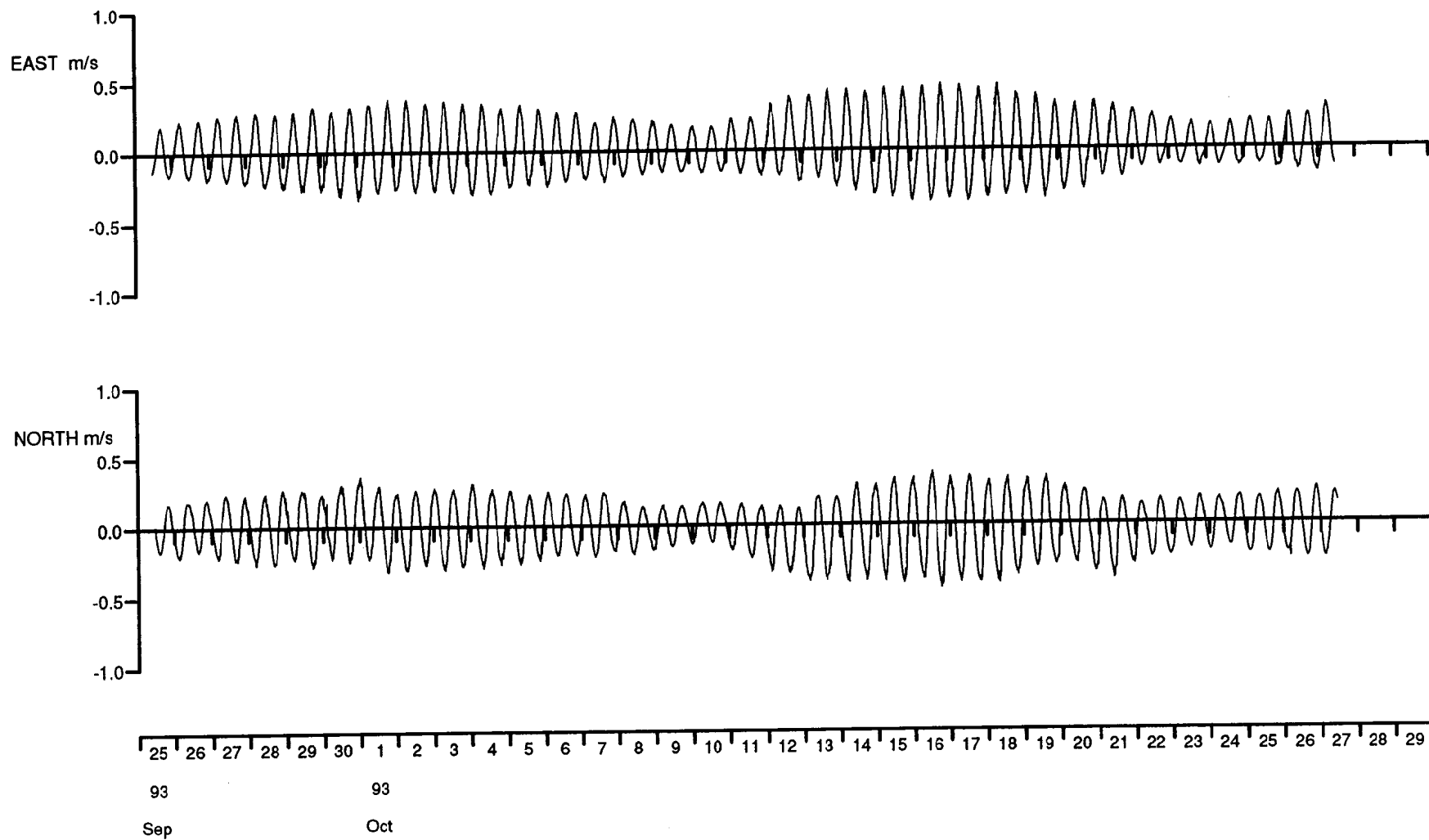
Rig No	: 00571
Meter No	: 6443
Recording interval	: 600.0 seconds
Meter height from bottom	: 3.5 m
Position of meter on rig	: B
Meter type	: AA
Meter started	: 25-SEP-93 09:40:00
Meter stopped	: 27-OCT-93 11:39:58
Period switched on	: 32.1 days
Period of good data	: 32.0 days
Total number of scans	: 4610
Timing error	: 2 seconds fast
Comments	: None

# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 6443 Rig no. 00571 Depth of water(m) 22.0

Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00

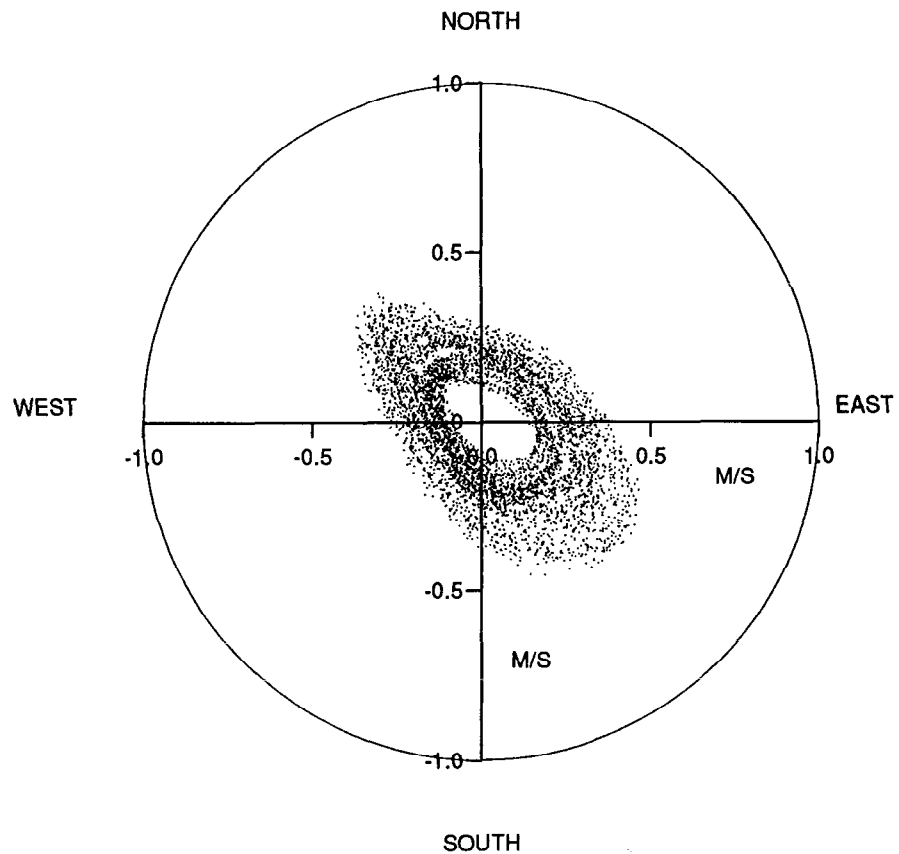
Position 54 07.28N 03 26.96W Meter Height(m) 3.5





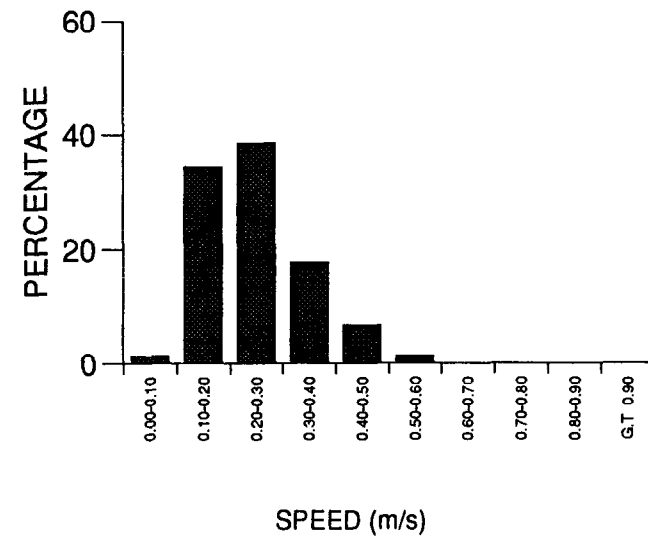
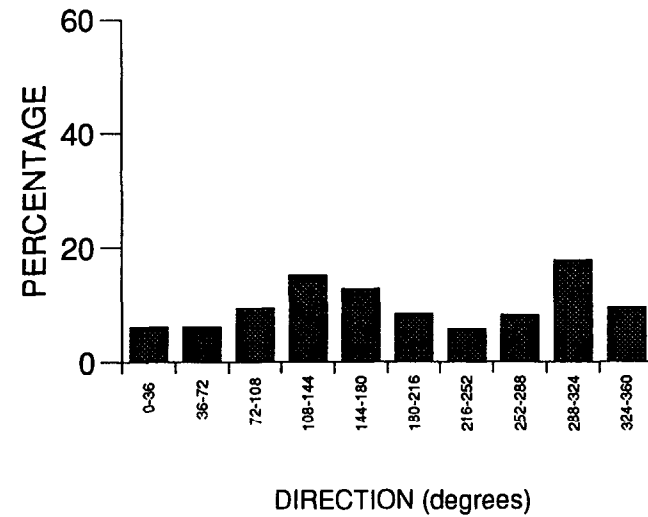
### SCATTER PLOT

Meter no. 6443 Rig no. 00571 Depth of water(m) 22.0  
Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00  
Position 54 07.28N 03 26.96W Meter Height(m) 3.5



### HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 6443 Rig no. 00571 Depth of water(m) 22.0  
Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00  
Position 54 07.28N 03 26.96W Meter Height(m) 3.5

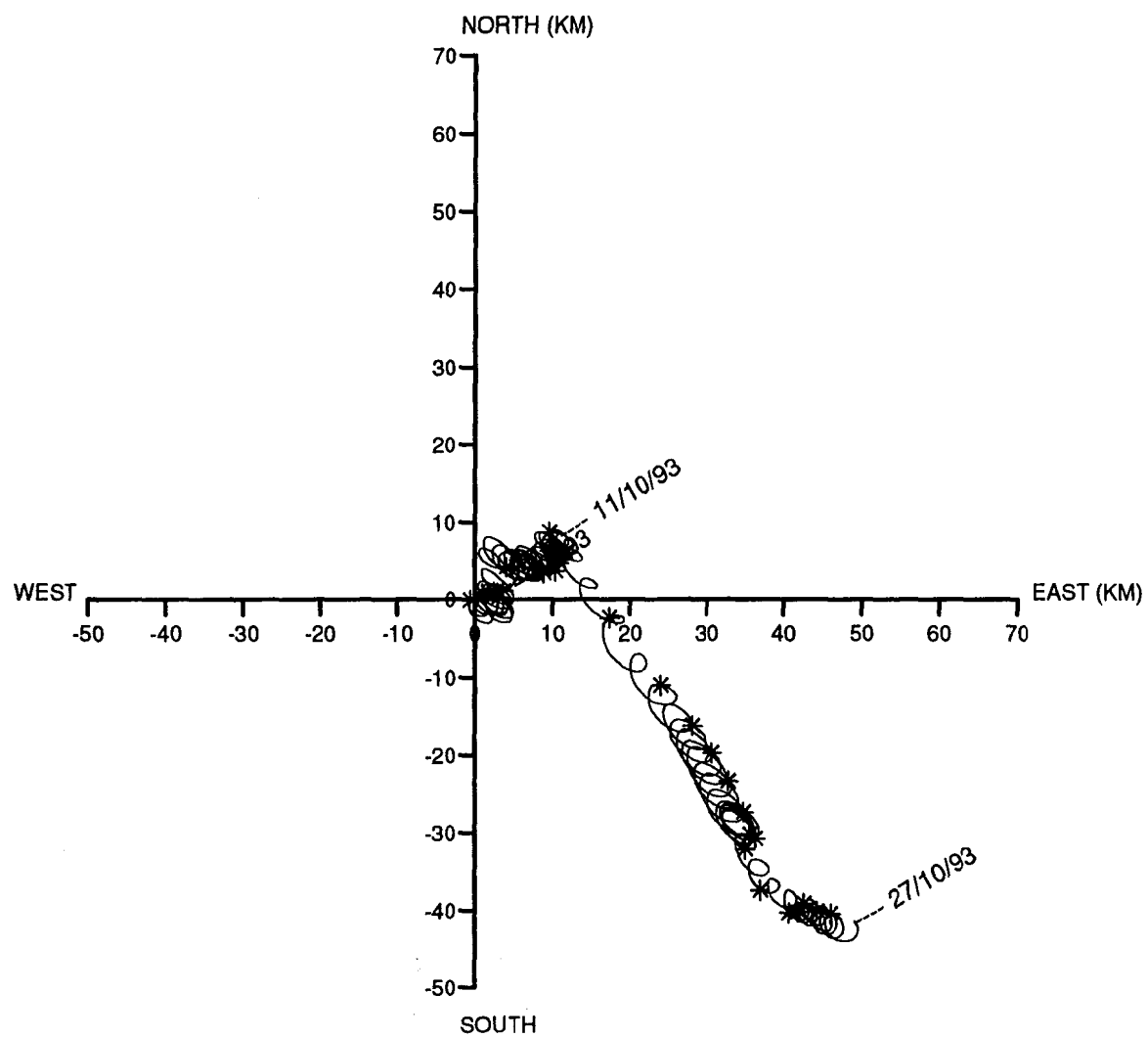


# VECTOR PLOT

Meter no. 6443 Rig no. 00571 Depth of water(m) 22.0

Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00

Position 54 07.28N 03 26.96W Meter Height(m) 3.5

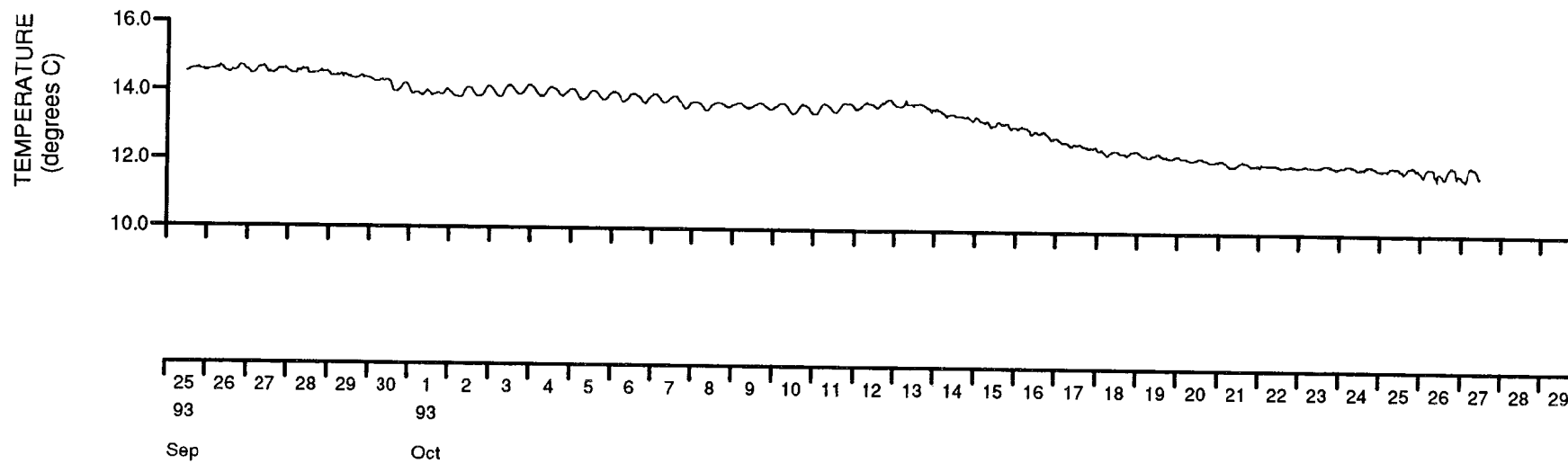


# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 6443 Rig no. 00571 Depth of water(m) 22.0

Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00

Position 54 07.28N 03 26.96W Meter Height(m) 3.5



# Statistics for aa6443b.00571s

	Mean	Variance	Standard deviation
Eastings	0.0177	0.36023788E-01	0.18979932E+00
Northings	-0.0150	0.33301864E-01	0.18248798E+00
Speed	0.2473	0.86799832E-02	0.93166426E-01
Vector mean speed	0.0232		
Vector Mean Direction	130.1		

## Maximum ten values

Eastings					Northings				
0.464	0.460	0.457	0.456	0.454	0.374	0.364	0.362	0.350	0.348
0.454	0.453	0.450	0.448	0.442	0.346	0.345	0.343	0.342	0.340

## Minimum ten values

Eastings					Northings				
-0.356	-0.357	-0.358	-0.360	-0.362	-0.414	-0.416	-0.419	-0.419	-0.420
-0.363	-0.366	-0.366	-0.368	-0.371	-0.425	-0.431	-0.436	-0.453	-0.456

## Maximum speeds

0.553	0.550	0.548	0.546	0.546	0.541	0.540	0.539	0.536	0.534
0.534	0.534	0.534	0.533	0.532	0.532	0.530	0.530	0.529	0.529
0.529	0.529	0.527	0.527	0.526	0.526	0.526	0.525	0.525	0.523
0.523	0.523	0.522	0.520	0.520	0.518	0.513	0.513	0.513	0.513
0.512	0.512	0.512	0.512	0.512	0.509	0.509	0.509	0.508	0.508
0.508	0.506	0.506	0.506	0.506	0.506	0.505	0.505	0.504	0.502
0.501	0.501	0.499	0.499	0.498	0.495	0.495	0.494	0.494	0.494
0.492	0.492	0.492	0.492	0.491	0.491	0.490	0.490	0.490	0.488
0.488	0.488	0.488	0.488	0.487	0.487	0.485	0.485	0.485	0.484
0.484	0.484	0.484	0.484	0.483	0.480	0.480	0.478	0.478	0.478

## Variance ellipse statistics

Maximum variance	0.5238E-01	Direction	-47.2
Minimum variance	0.1695E-01	Direction	42.8
Total variance	0.6933E-01	Ratio of variances	0.3236E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		12.5	
Average direction. maxdir +PI/2 to maxdir -PI/2		182.2	

# Filtered Statistics for aa6443b.00571sf

	Mean	Variance	Standard deviation
Eastings	0.0178	0.39314083E-03	0.19827778E-01
Northings	-0.0173	0.13489610E-02	0.36728207E-01
Speed	0.0366	0.10092572E-02	0.31768810E-01
Vector mean speed	0.0248		
Vector Mean Direction	134.3		

## Maximum ten values

Eastings					Northings				
0.078	0.076	0.076	0.069	0.069	0.059	0.056	0.047	0.040	0.025
0.059	0.059	0.049	0.049	0.048	0.024	0.022	0.022	0.019	0.018

## Minimum ten values

Eastings					Northings				
-0.005	-0.006	-0.006	-0.006	-0.006	-0.071	-0.073	-0.076	-0.087	-0.092
-0.008	-0.008	-0.009	-0.010	-0.012	-0.103	-0.107	-0.116	-0.118	-0.122

## Maximum speeds

0.143	0.142	0.135	0.131	0.119	0.115	0.098	0.096	0.082	0.079
0.079	0.078	0.078	0.073	0.068	0.064	0.064	0.063	0.059	0.058
0.056	0.056	0.053	0.047	0.047	0.047	0.047	0.045	0.045	0.043
0.042	0.042	0.042	0.042	0.040	0.039	0.039	0.039	0.036	0.035
0.034	0.033	0.033	0.032	0.032	0.032	0.032	0.029	0.027	0.026
0.025	0.024	0.024	0.023	0.022	0.022	0.021	0.021	0.020	0.020
0.020	0.019	0.019	0.019	0.019	0.019	0.018	0.018	0.018	0.018
0.018	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
0.016	0.016	0.016	0.015	0.013	0.012	0.012	0.011	0.011	0.011
0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008	0.008

## Variance ellipse statistics

Maximum variance	0.1680E-02	Direction	-26.9
Minimum variance	0.6226E-04	Direction	63.1
Total variance	0.1742E-02	Ratio of variances	0.3706E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		29.2	
Average direction. maxdir +PI/2 to maxdir -PI/2		157.8	

STICK TIME SERIES PLOT

Rig no. 00571 Depth of water(m) 22.0

Meter No. Meter Height

Start/End 1993/09/25 AT 10:50:00 1993/10/27 AT 11:15:00

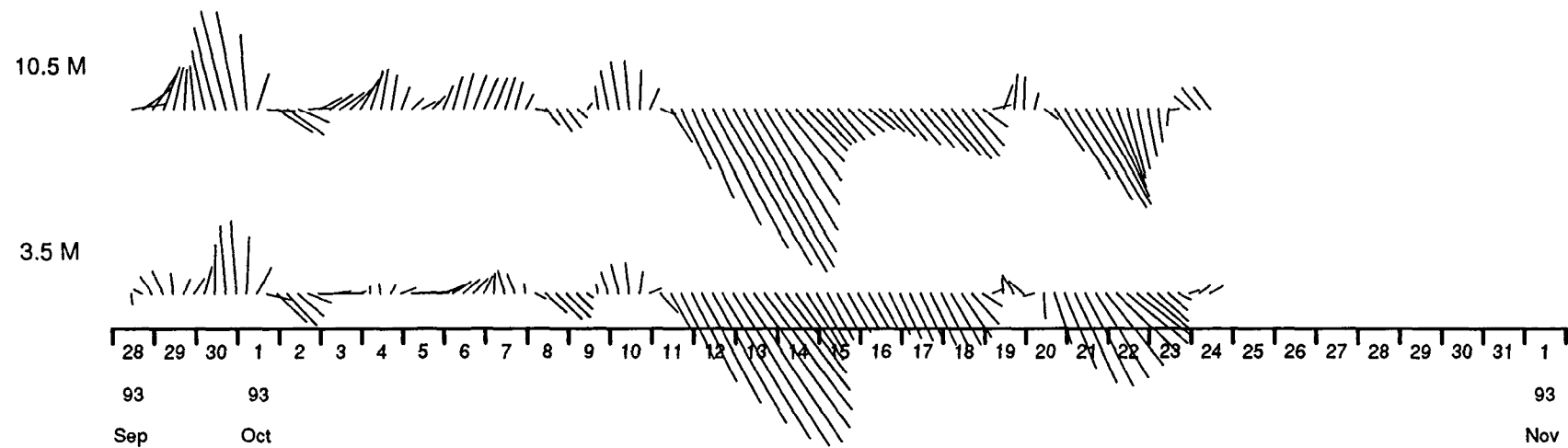
Position 54 07.28N 03 26.96W

Filtered Series

Scale 0.1 m/s



0568	10.5 M
6443	3.5 M



**Rig information details for 00570**

Position Latitude	: 54 07.11N
Position Longitude	: 03 26.78W
Water depth	: 22.0 m
Deployed on cruise	: CH106
Recovered on cruise	: CH107
Site name identification	: Y
Magnetic deviation	: 6.7 degrees west
Rig deployed on	: 25-SEP-93 08:45:00
Rig recovered on	: 27-OCT-93 09:20:00
Period of deployment	: 32.0 days
Comments	: None

**Meter information details for 0010**

Rig No	: 00570
Meter No	: 0010
Recording interval	: 600.0 seconds
Meter height from bottom	: 0.5 m
Meter type	: DP
Meter started	: 25-SEP-93 06:09:17
Meter stopped	: 27-OCT-93 09:49:22
Period switched on	: 32.2 days
Period of good data	: 32.0 days
Total number of scans	: 4612
Timing error	: 5 seconds slow
Comments	: None



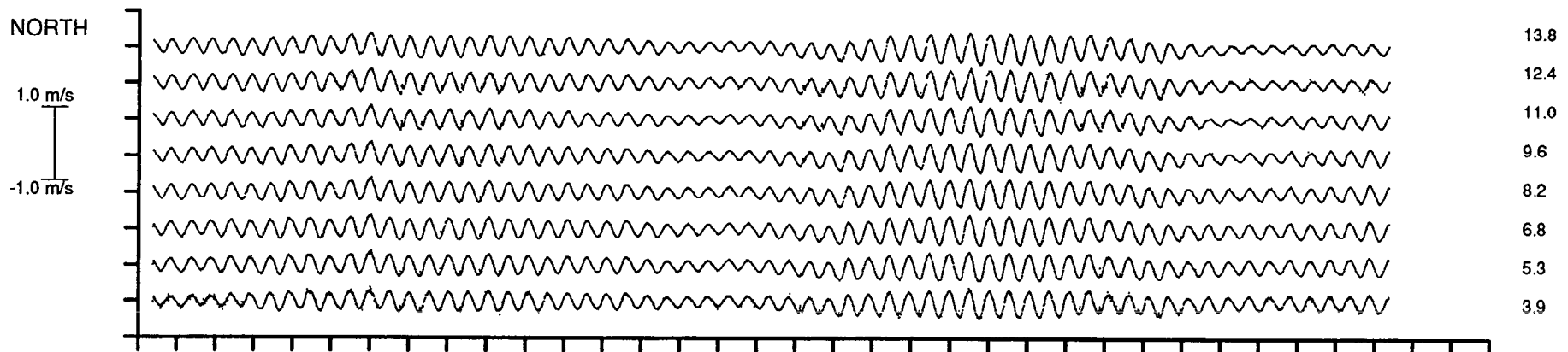
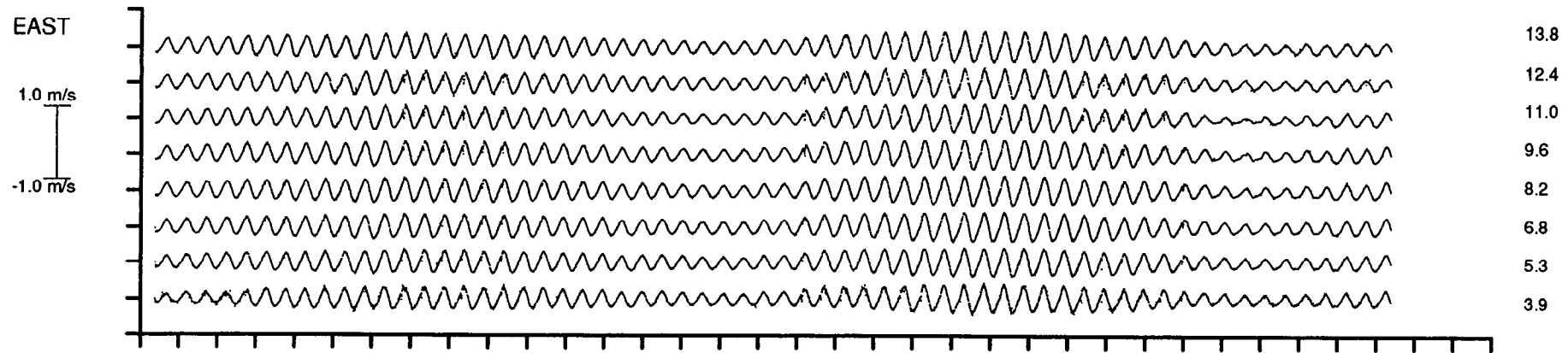
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00570 Depth of water(m) 22.0

Start/End 1993/09/25 AT 08:45:00 1993/10/27 AT 09:20:00

Position 54 07.11N 03 26.78W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)



25 26 27 28 29 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

93 93

Sep Oct

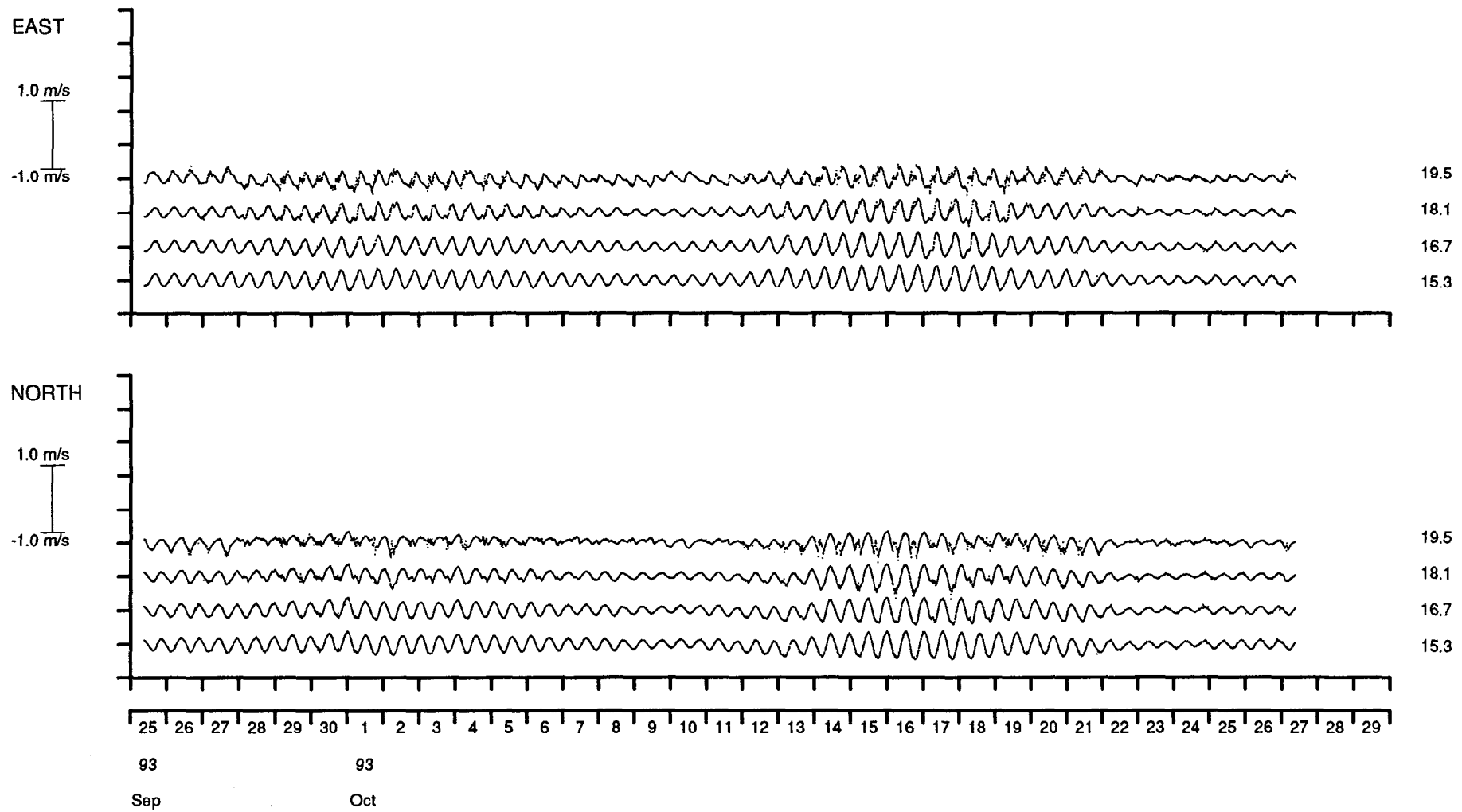
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00570 Depth of water(m) 22.0

Start/End 1993/09/25 AT 08:45:00 1993/10/27 AT 09:20:00

Position 54 07.11N 03 26.78W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)

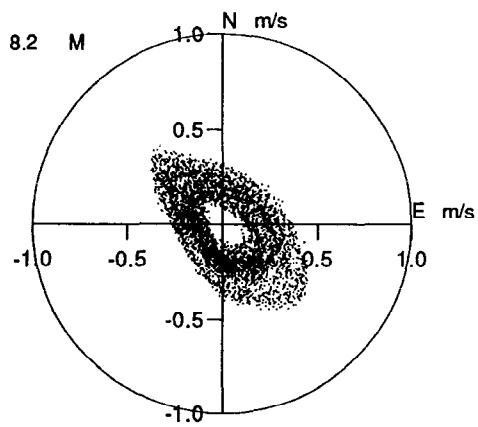
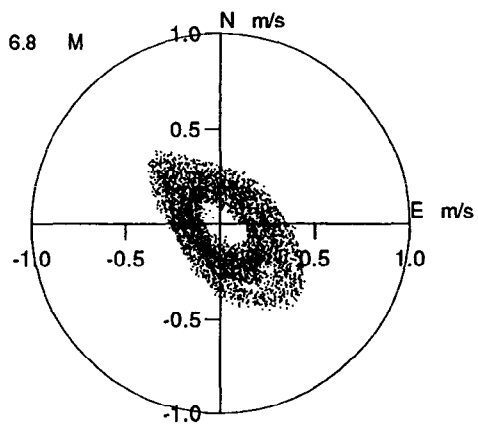
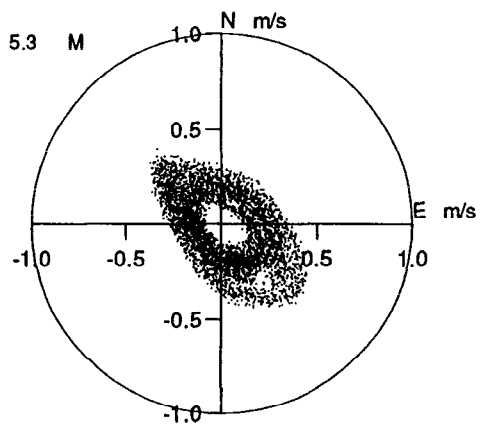
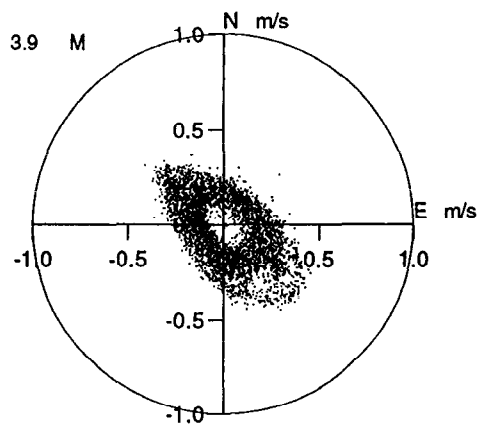
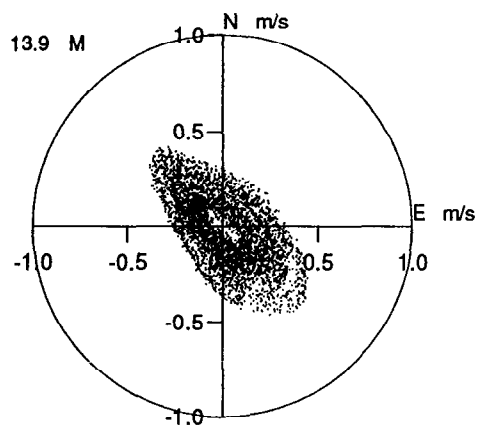
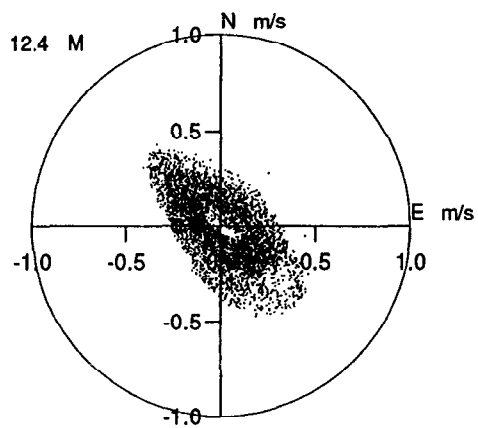
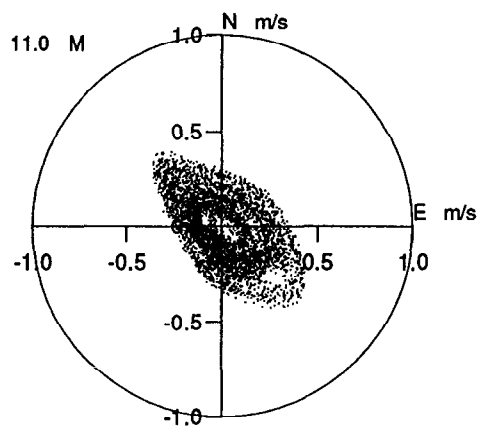
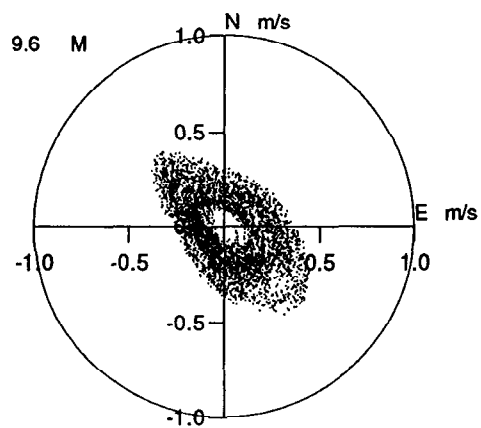


# SCATTER PLOT

Meter no. 0010 Rig no. 00570 Depth of water(m) 22.0

Start/End 1993/09/25 AT 08:45:00 1993/10/27 AT 09:20:00

Position 54 07.11N 03 26.78W 3.91 Base Ht 1.42 Gap Ht

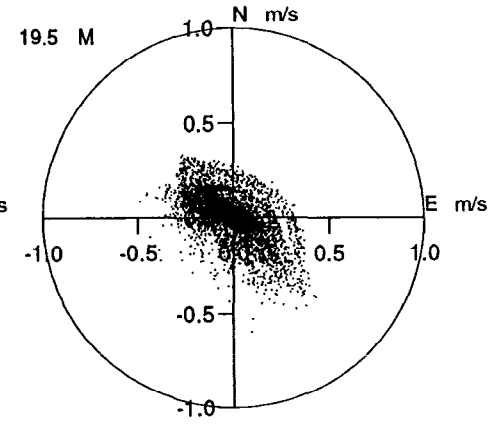
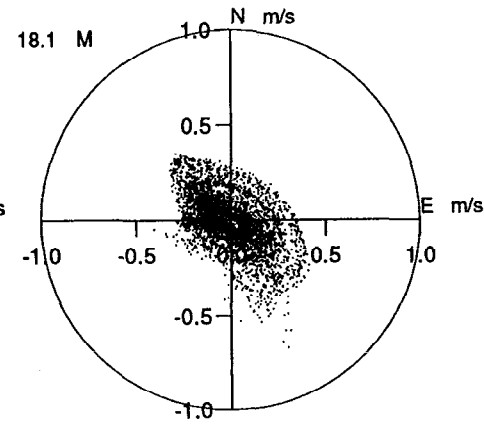
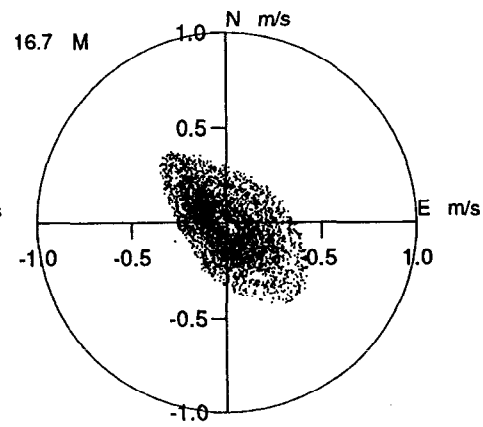
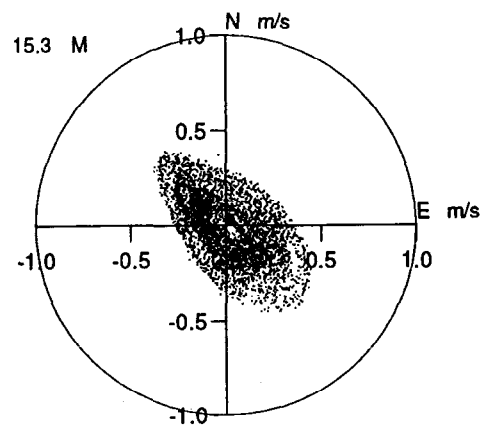


# SCATTER PLOT

Meter no. 0010 Rig no. 00570 Depth of water(m) 22.0

Start/End 1993/09/25 AT 08:45:00 1993/10/27 AT 09:20:00

Position 54 07.11N 03 26.78W 3.91 Base Ht 1.42 Gap Ht



# STICK TIME SERIES PLOT

Meter no. 0010 Rig no. 00570 Depth of water(m) 22.0

Start/End 1993/09/25 AT 08:45:00 1993/10/27 AT 09:20:00

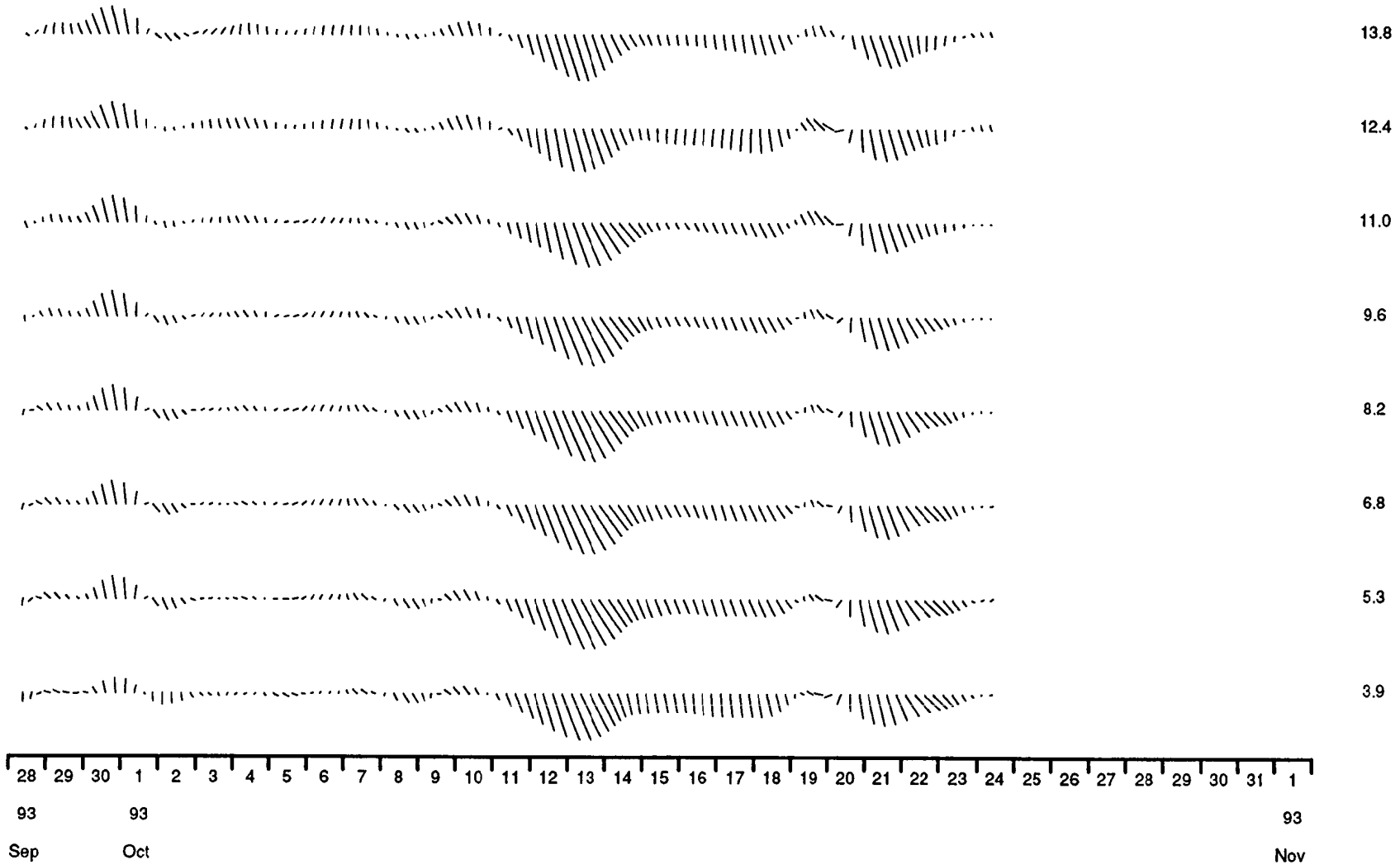
Position 54 07.11N 03 26.78W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

—

Bin Ht (m)



STICK TIME SERIES PLOT

Meter no. 0010 Rig no. 00570 Depth of water(m) 22.0

Start/End 1993/09/25 AT 08:45:00 1993/10/27 AT 09:20:00

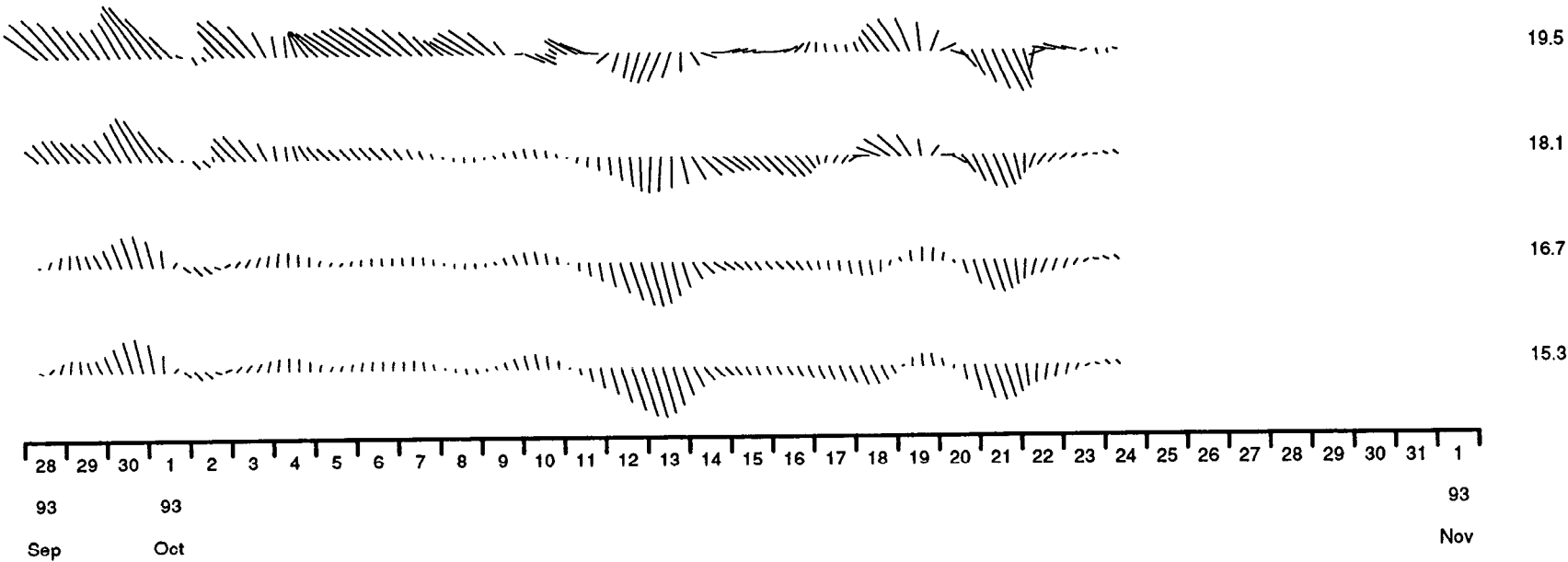
Position 54 07.11N 03 26.78W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

—

Bin Ht (m)



## Statistics for dp0010.00570

### Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.025	163.0	0.0454	-46.3	0.0131	43.7
2	5.3	0.022	149.6	0.0514	-45.6	0.0165	44.4
3	6.8	0.020	147.5	0.0540	-45.3	0.0172	44.7
4	8.2	0.020	147.2	0.0540	-45.0	0.0169	45.0
5	9.6	0.017	147.9	0.0507	-45.1	0.0158	44.9
6	11.0	0.013	152.9	0.0436	-45.4	0.0135	44.6
7	12.4	0.009	168.8	0.0513	-45.0	0.0111	45.0
8	13.8	0.011	150.6	0.0521	-45.1	0.0122	44.9
9	15.3	0.010	149.1	0.0473	-45.2	0.0119	44.8
10	16.7	0.007	156.5	0.0399	-45.4	0.0105	44.6
11	18.1	0.006	-95.0	0.0333	-46.7	0.0093	43.3
12	19.5	0.023	-56.0	0.0292	-51.5	0.0075	38.5

## Statistics for dp0010.00570

### Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.027	164.6	0.0014	-21.9	0.0001	68.1
2	5.3	0.024	152.8	0.0017	-24.6	0.0001	65.4
3	6.8	0.022	150.7	0.0018	-24.1	0.0001	65.9
4	8.2	0.021	150.3	0.0018	-23.4	0.0001	66.6
5	9.6	0.018	151.2	0.0017	-21.8	0.0000	68.2
6	11.0	0.013	155.4	0.0015	-20.3	0.0001	69.7
7	12.4	0.011	176.1	0.0018	-13.1	0.0001	76.9
8	13.8	0.013	152.9	0.0018	-15.1	0.0000	74.9
9	15.3	0.011	147.0	0.0016	-15.2	0.0000	74.8
10	16.7	0.008	150.6	0.0013	-14.5	0.0001	75.5
11	18.1	0.007	-83.5	0.0023	-30.6	0.0002	59.4
12	19.5	0.034	-50.5	0.0036	-40.7	0.0006	49.3



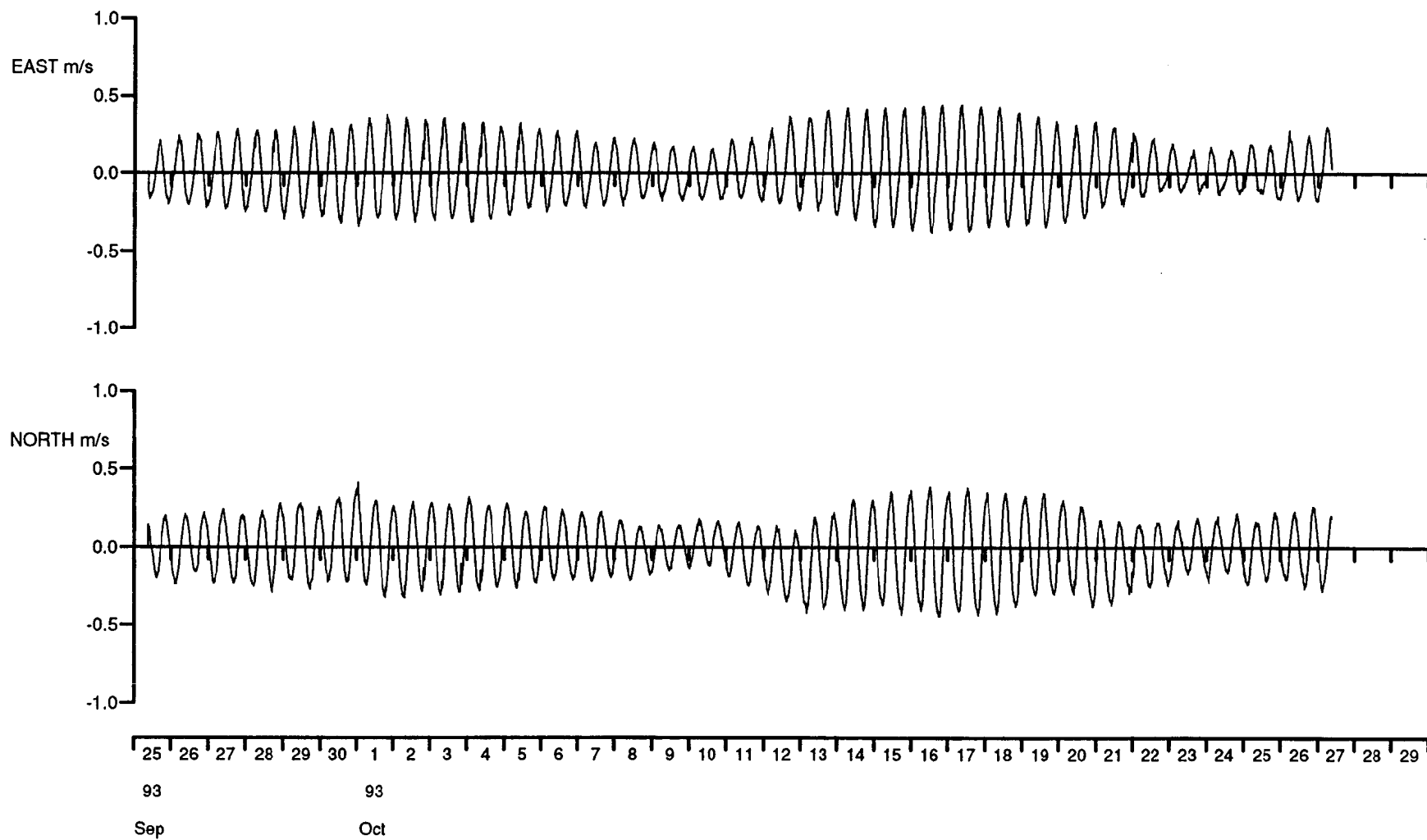
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00570 Depth of water(m) 22.0

Start/End 1993/09/25 AT 08:45:00 1993/10/27 AT 09:20:00

Position 54 07.11N 03 26.78W 3.91 Base Ht 1.42 Gap Ht 8.2 Bin Ht (m)

Bin closest to depth average



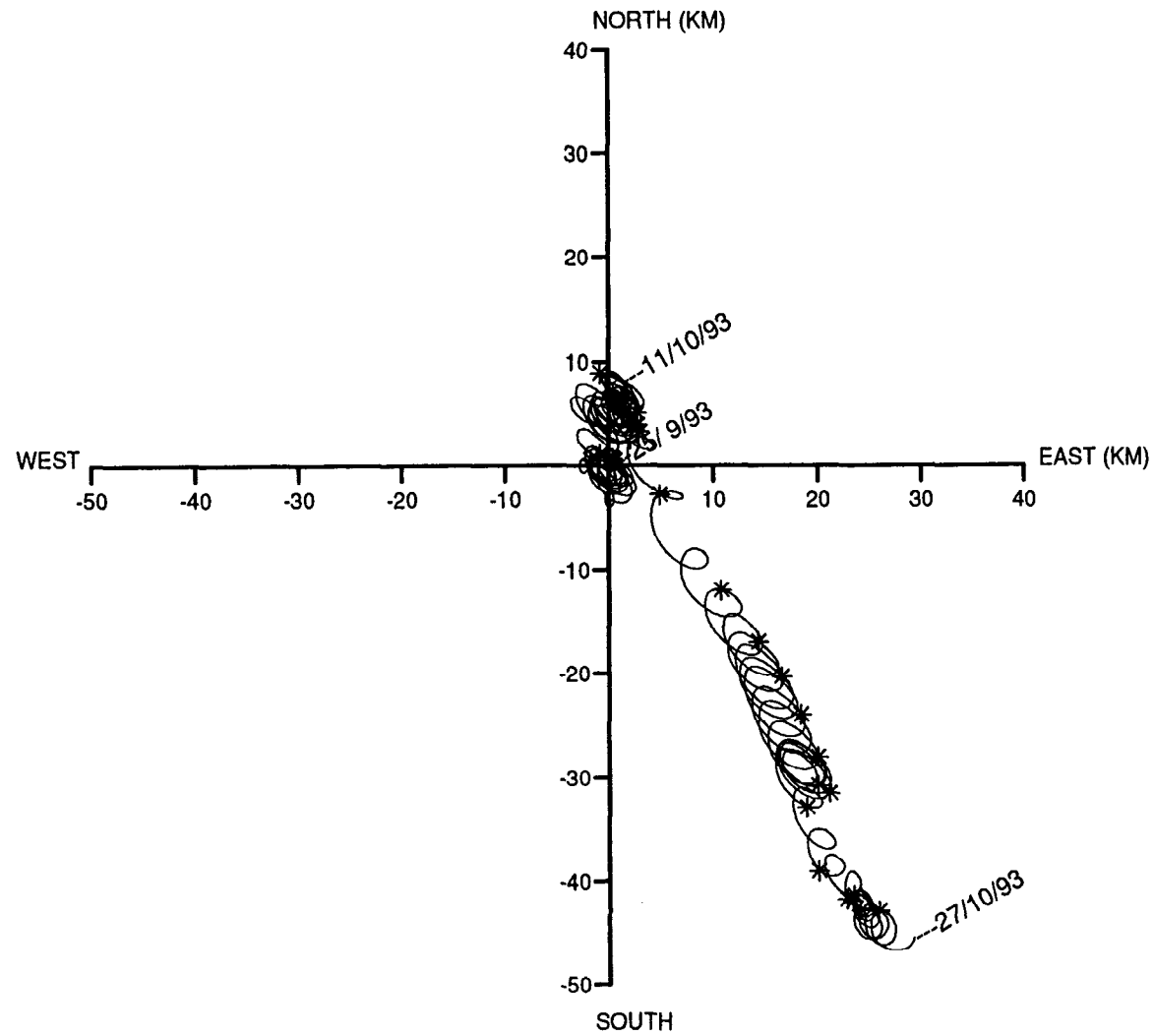
# VECTOR PLOT

Meter no. 0010 Rig no. 00570 Depth of water(m) 22.0

Start/End 1993/09/25 AT 08:45:00 1993/10/27 AT 09:20:00

Position 54 07.11N 03 26.78W 3.91 Base Ht 1.42 Gap Ht 8.2 Bin Ht (m)

Bin closest to depth average



## Statistics for dp0010.00570s4

Doppler bin number 4

	Mean	Variance	Standard deviation
Eastings	0.0106	0.35490014E-01	0.18838793E+00
Northings	-0.0164	0.35455734E-01	0.18829693E+00
Speed	0.2490	0.93189022E-02	0.96534461E-01
Vector mean speed	0.0195		
Vector Mean Direction	147.2		

### Maximum ten values

Eastings					Northings				
0.445	0.444	0.444	0.440	0.438	0.412	0.392	0.388	0.385	0.382
0.437	0.435	0.434	0.433	0.432	0.375	0.375	0.373	0.371	0.369

### Minimum ten values

Eastings					Northings				
-0.362	-0.362	-0.366	-0.366	-0.366	-0.421	-0.421	-0.425	-0.428	-0.430
-0.368	-0.369	-0.372	-0.374	-0.378	-0.432	-0.440	-0.442	-0.444	-0.444

### Maximum speeds

0.571	0.565	0.564	0.563	0.561	0.560	0.558	0.555	0.552	0.548
0.547	0.547	0.546	0.544	0.543	0.543	0.542	0.541	0.541	0.538
0.534	0.533	0.532	0.532	0.531	0.531	0.530	0.529	0.529	0.529
0.527	0.527	0.526	0.526	0.525	0.523	0.522	0.522	0.521	0.520
0.520	0.518	0.516	0.515	0.513	0.512	0.512	0.511	0.511	0.510
0.510	0.510	0.509	0.509	0.508	0.508	0.508	0.508	0.507	0.507
0.506	0.506	0.506	0.506	0.504	0.504	0.503	0.501	0.501	0.501
0.500	0.500	0.500	0.499	0.497	0.497	0.496	0.495	0.494	0.494
0.494	0.494	0.493	0.493	0.492	0.491	0.491	0.491	0.490	0.490
0.490	0.490	0.489	0.489	0.488	0.488	0.487	0.487	0.487	0.487

## Variance ellipse statistics

Maximum variance	0.5400E-01	Direction	-45.0
Minimum variance	0.1695E-01	Direction	45.0
Total variance	0.7095E-01	Ratio of variances	0.3138E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		11.0	
Average direction. maxdir +PI/2 to maxdir -PI/2		183.7	

## Filtered Statistics for dp0010.00570s4f

Doppler bin number 4

	Mean	Variance	Standard deviation
Eastings	0.0103	0.33076550E-03	0.18186960E-01
Northings	-0.0181	0.15315590E-02	0.39135139E-01
Speed	0.0350	0.10639887E-02	0.32618839E-01
Vector mean speed	0.0209		
Vector Mean Direction	150.3		

### Maximum ten values

Eastings					Northings				
0.064	0.063	0.062	0.057	0.056	0.066	0.058	0.057	0.036	0.033
0.048	0.048	0.039	0.037	0.035	0.026	0.023	0.021	0.019	0.018

### Minimum ten values

Eastings					Northings				
-0.011	-0.012	-0.012	-0.012	-0.013	-0.081	-0.083	-0.085	-0.089	-0.099
-0.013	-0.013	-0.014	-0.015	-0.015	-0.105	-0.118	-0.123	-0.131	-0.133

### Maximum speeds

0.146	0.142	0.139	0.127	0.122	0.107	0.102	0.094	0.087	0.087
0.085	0.082	0.073	0.067	0.066	0.066	0.064	0.061	0.058	0.058
0.054	0.051	0.049	0.048	0.046	0.044	0.044	0.043	0.042	0.041
0.040	0.039	0.038	0.038	0.038	0.037	0.036	0.034	0.034	0.033
0.033	0.032	0.031	0.030	0.029	0.029	0.028	0.028	0.027	0.025
0.025	0.024	0.024	0.023	0.023	0.022	0.022	0.021	0.021	0.019
0.019	0.018	0.017	0.017	0.016	0.016	0.016	0.015	0.015	0.015
0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.012	0.012	0.012
0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010
0.010	0.009	0.009	0.009	0.009	0.008	0.007	0.007	0.006	0.006

## Variance ellipse statistics

Maximum variance	0.1809E-02	Direction	-23.4
Minimum variance	0.5311E-04	Direction	66.6
Total variance	0.1862E-02	Ratio of variances	0.2935E-01
Average direction. maxdir -PI/2 to maxdir +PI/2	13.9		
Average direction. maxdir +PI/2 to maxdir -PI/2	174.7		

**Rig information details for 00593**

Position Latitude	:	54 07.18N
Position Longitude	:	03 27.08W
Water depth	:	20.0 m
Deployed on cruise	:	CH107
Recovered on cruise	:	P.MADOG
Site name identification	:	Y
Magnetic deviation	:	6.5 degrees west
Rig deployed on	:	27-OCT-93 12:30:00
Rig recovered on	:	30-NOV-93 16:00:00
Period of deployment	:	34.1 days
Comments	:	None

**Meter information details for 4387**

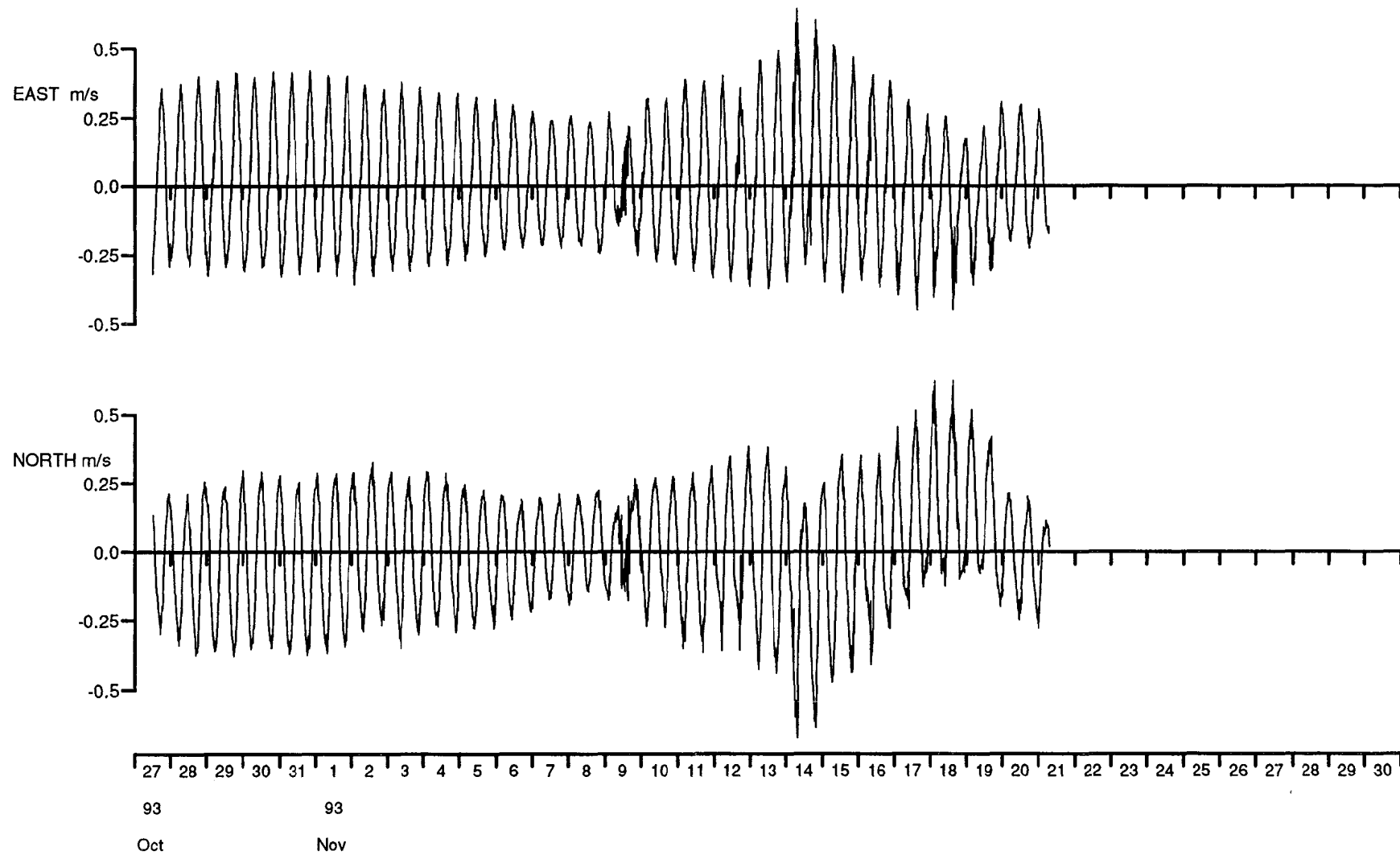
Rig No	:	00593
Meter No	:	4387
Recording interval	:	600.0 seconds
Meter height from bottom	:	10.5 m
Position of meter on rig	:	T
Meter type	:	AA
Meter started	:	27-OCT-93 09:00:00
Time of last valid scan	:	30-NOV-93 17:12:00
Period of good data	:	24.8 days      short record
Total number of scans	:	3570
Timing error	:	120 seconds slow
Comments	:	On recovery, 4387 didn't record for 30 minutes. Speed channel recording zero 21/11(0730) onwards,subsequent data treated as suspect.

# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 4387 Rig no. 00593 Depth of water(m) 20.0

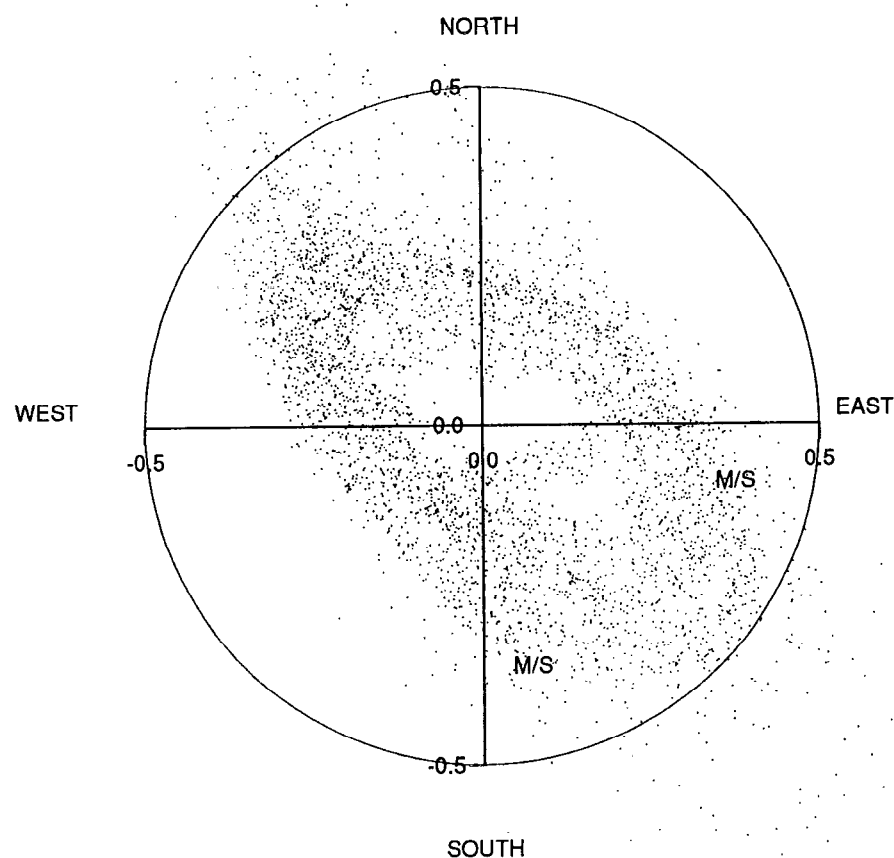
Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00

Position 54 07.18N 03 27.08W Meter Height(m) 10.5



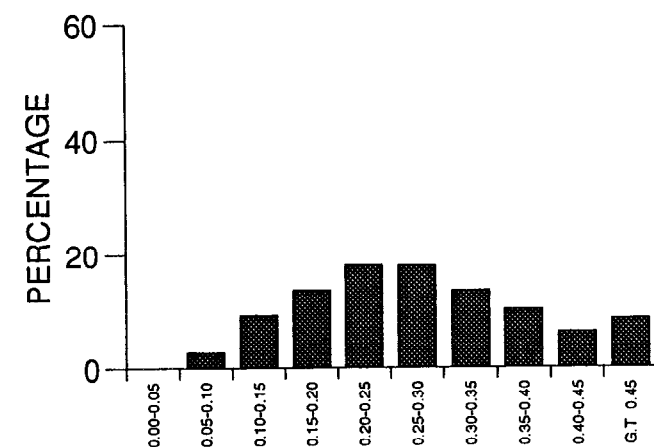
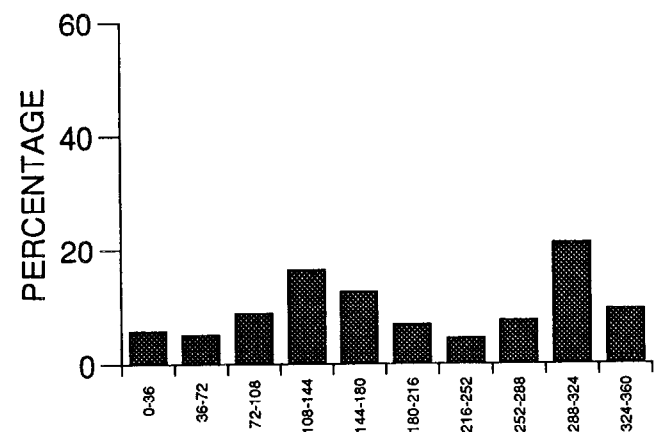
# SCATTER PLOT

Meter no. 4387 Rig no. 00593 Depth of water(m) 20.0  
 Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00  
 Position 54 07.18N 03 27.08W Meter Height(m) 10.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 4387 Rig no. 00593 Depth of water(m) 20.0  
 Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00  
 Position 54 07.18N 03 27.08W Meter Height(m) 10.5



SPEED (m/s)

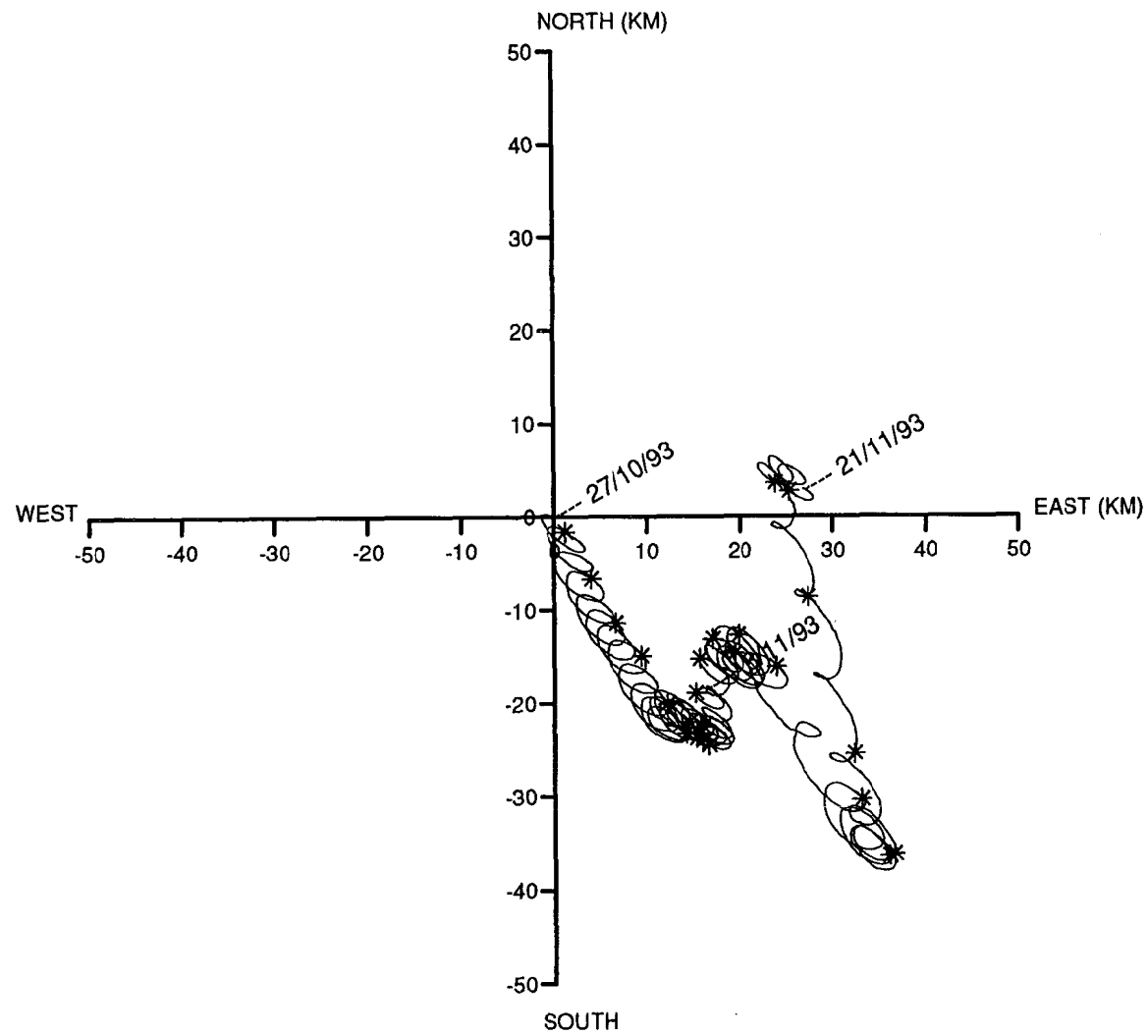


# VECTOR PLOT

Meter no. 4387 Rig no. 00593 Depth of water(m) 20.0

Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00

Position 54 07.18N 03 27.08W Meter Height(m) 10.5

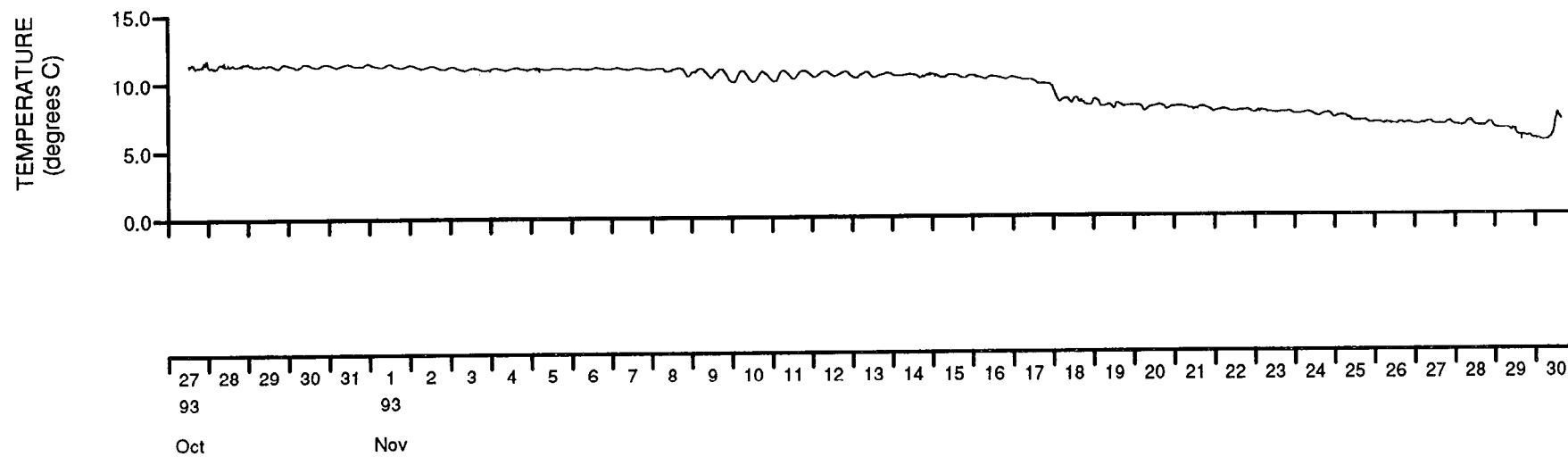


# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 4387 Rig no. 00593 Depth of water(m) 20.0

Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00

Position 54 07.18N 03 27.08W Meter Height(m) 10.5



# Statistics for aa4387t.00593s

	Mean	Variance	Standard deviation
Eastings	0.0099	0.38729787E-01	0.19679886E+00
Northings	0.0061	0.35919610E-01	0.18952470E+00
Speed	0.2352	0.19454077E-01	0.13947788E+00
Vector mean speed	0.0116		
Vector Mean Direction	58.3		

## Maximum ten values

Eastings					Northings				
0.644	0.604	0.592	0.590	0.579	0.622	0.622	0.581	0.551	0.548
0.575	0.565	0.555	0.548	0.535	0.536	0.533	0.526	0.524	0.520

## Minimum ten values

Eastings					Northings				
-0.398	-0.398	-0.400	-0.402	-0.404	-0.596	-0.598	-0.599	-0.606	-0.613
-0.405	-0.407	-0.412	-0.452	-0.454	-0.616	-0.636	-0.651	-0.652	-0.676

## Maximum speeds

0.810	0.802	0.799	0.799	0.774	0.774	0.768	0.765	0.763	0.760
0.754	0.746	0.740	0.737	0.735	0.729	0.721	0.715	0.712	0.709
0.690	0.681	0.676	0.670	0.667	0.653	0.651	0.651	0.651	0.651
0.648	0.645	0.642	0.631	0.625	0.623	0.623	0.620	0.617	0.617
0.614	0.614	0.614	0.611	0.611	0.606	0.603	0.603	0.600	0.600
0.597	0.597	0.597	0.595	0.595	0.592	0.592	0.586	0.586	0.586
0.583	0.583	0.581	0.581	0.581	0.578	0.578	0.575	0.575	0.572
0.572	0.572	0.569	0.569	0.567	0.567	0.564	0.561	0.561	0.558
0.558	0.555	0.555	0.555	0.555	0.553	0.553	0.553	0.553	0.550
0.550	0.550	0.547	0.547	0.547	0.544	0.541	0.541	0.541	0.539

## Variance ellipse statistics

Maximum variance	0.6010E-01	Direction	-46.8
Minimum variance	0.1455E-01	Direction	43.2
Total variance	0.7465E-01	Ratio of variances	0.2421E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		11.1	
Average direction. maxdir +PI/2 to maxdir -PI/2		179.1	

# Filtered Statistics for aa4387t.00593sf

	Mean	Variance	Standard deviation
Eastings	0.0081	0.74461248E-03	0.27287588E-01
Northings	0.0115	0.43952647E-02	0.66296794E-01
Speed	0.0493	0.28908718E-02	0.53766828E-01
Vector mean speed	0.0140		
Vector Mean Direction	35.0		

## Maximum ten values

Eastings					Northings				
0.098	0.092	0.092	0.075	0.074	0.200	0.199	0.194	0.189	0.182
0.052	0.052	0.034	0.033	0.032	0.167	0.163	0.135	0.132	0.106

## Minimum ten values

Eastings					Northings				
-0.032	-0.035	-0.041	-0.044	-0.044	-0.053	-0.053	-0.054	-0.062	-0.087
-0.045	-0.049	-0.051	-0.055	-0.057	-0.108	-0.127	-0.147	-0.158	-0.167

## Maximum speeds

0.206	0.205	0.202	0.194	0.193	0.191	0.183	0.174	0.173	0.170
0.147	0.141	0.137	0.131	0.110	0.109	0.102	0.101	0.094	0.091
0.089	0.081	0.066	0.062	0.062	0.061	0.060	0.058	0.058	0.056
0.052	0.051	0.050	0.046	0.045	0.044	0.044	0.043	0.042	0.041
0.040	0.038	0.037	0.037	0.037	0.036	0.032	0.032	0.031	0.030
0.030	0.030	0.030	0.029	0.029	0.028	0.028	0.028	0.027	0.027
0.027	0.026	0.025	0.024	0.024	0.023	0.023	0.023	0.023	0.022
0.022	0.022	0.022	0.021	0.020	0.020	0.020	0.020	0.019	0.019
0.019	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.013	0.013
0.013	0.013	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.010

## Variance ellipse statistics

Maximum variance	0.5076E-02	Direction	-21.6
Minimum variance	0.6396E-04	Direction	68.4
Total variance	0.5140E-02	Ratio of variances	0.1260E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		21.5	
Average direction. maxdir +PI/2 to maxdir -PI/2		153.7	

**Meter information details for 6443**

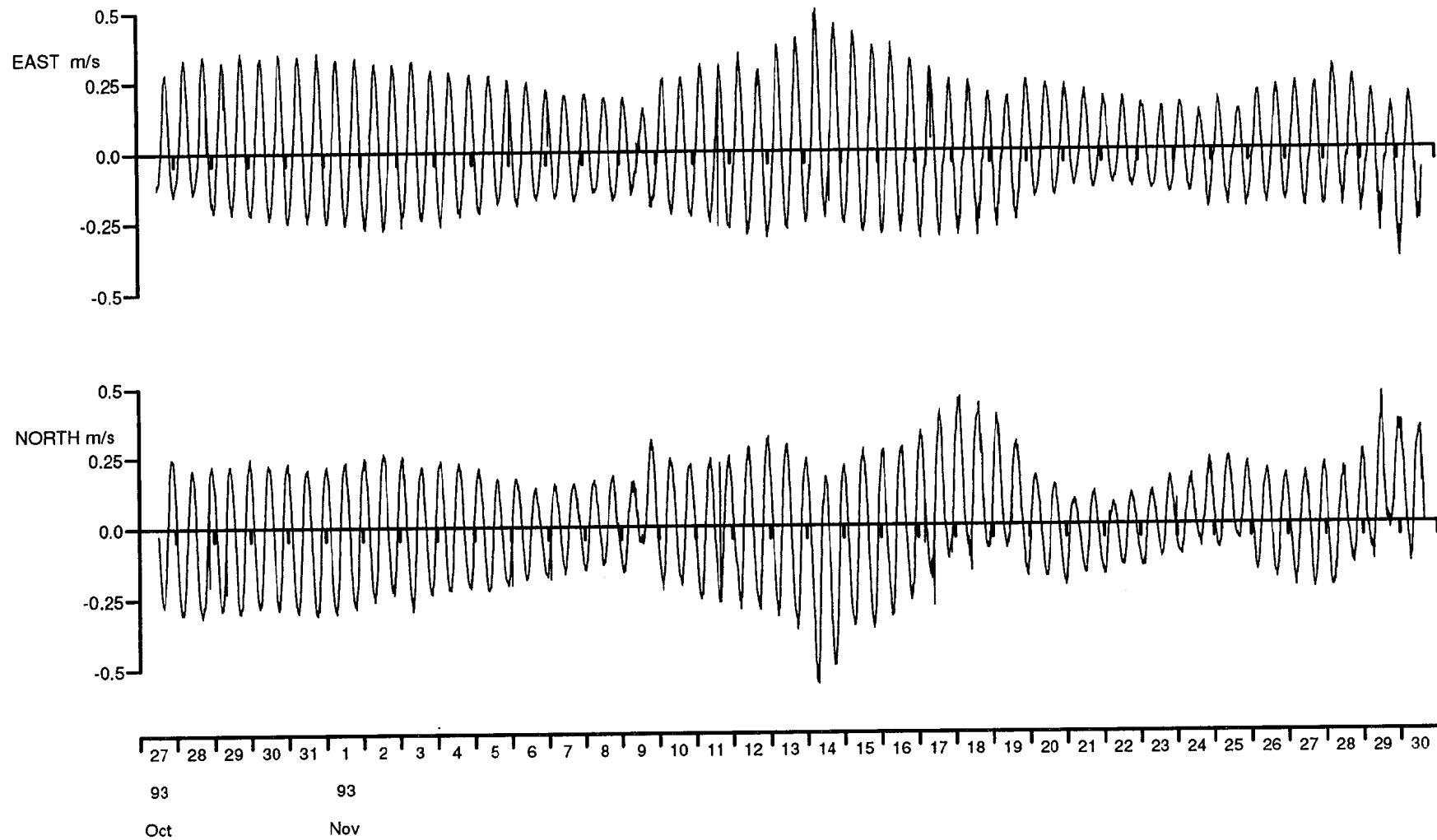
Rig No	: 00593
Meter No	: 6443
Recording interval	: 600.0 seconds
Meter height from bottom	: 3.5 m
Position of meter on rig	: B
Meter type	: AA
Meter started	: 27-OCT-93 11:50:00
Meter stopped	: 30-NOV-93 16:42:00
Period switched on	: 34.2 days
Period of good data	: 34.1 days
Total number of scans	: 4917
Timing error	: 120 seconds slow
Comments	: None

# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 6443 Rig no. 00593 Depth of water(m) 20.0

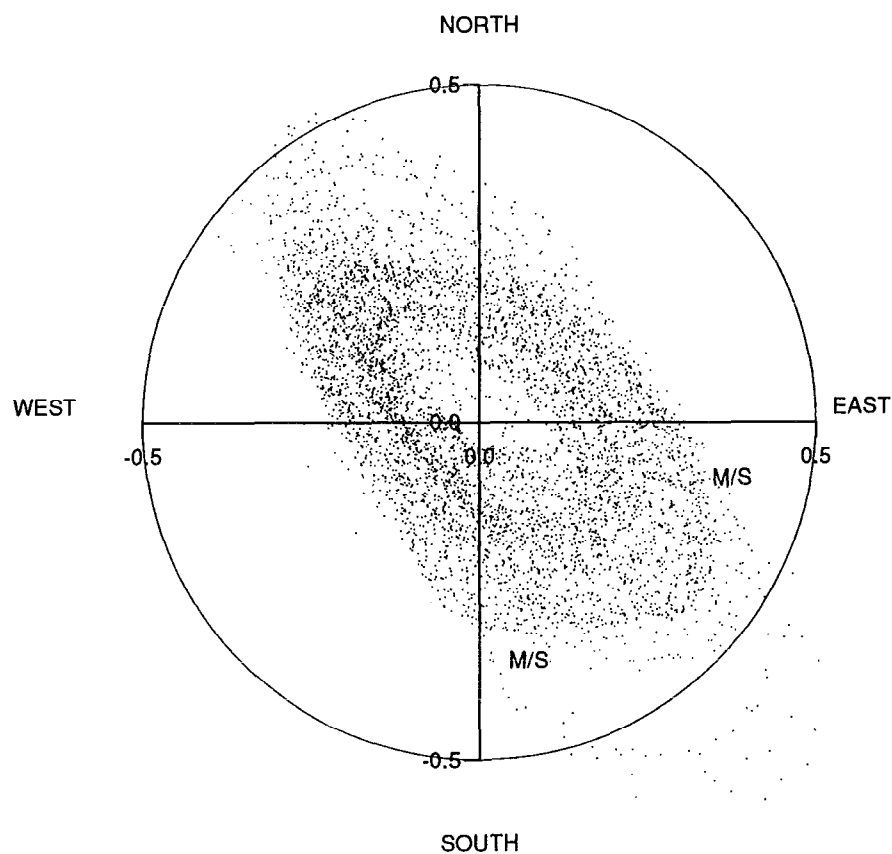
Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00

Position 54 07.18N 03 27.08W Meter Height(m) 3.5



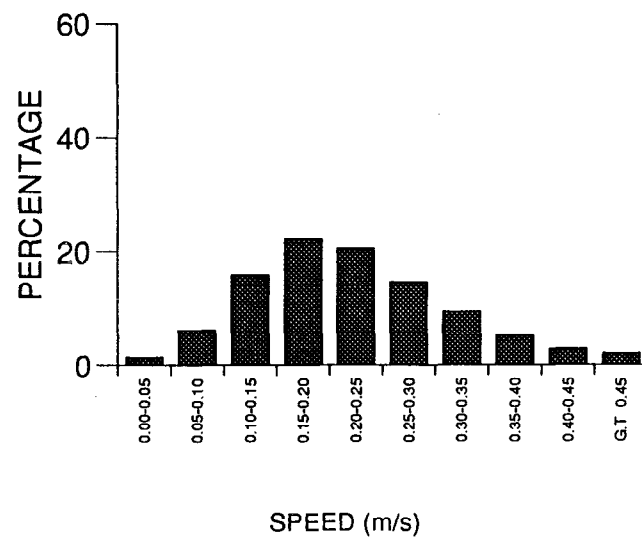
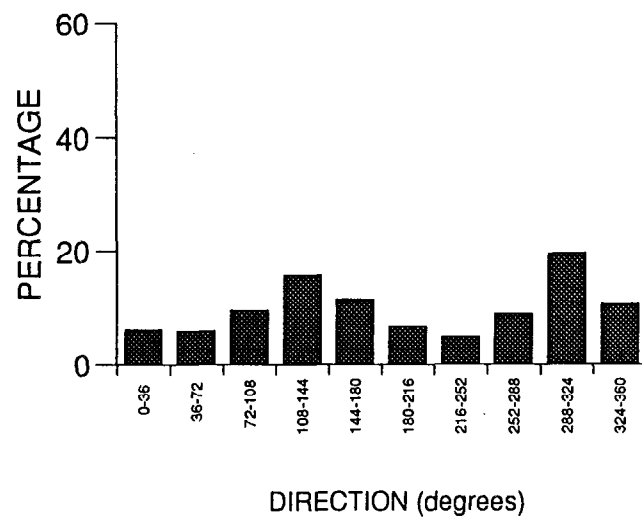
# SCATTER PLOT

Meter no. 6443 Rig no. 00593 Depth of water(m) 20.0  
 Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00  
 Position 54 07.18N 03 27.08W Meter Height(m) 3.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 6443 Rig no. 00593 Depth of water(m) 20.0  
 Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00  
 Position 54 07.18N 03 27.08W Meter Height(m) 3.5

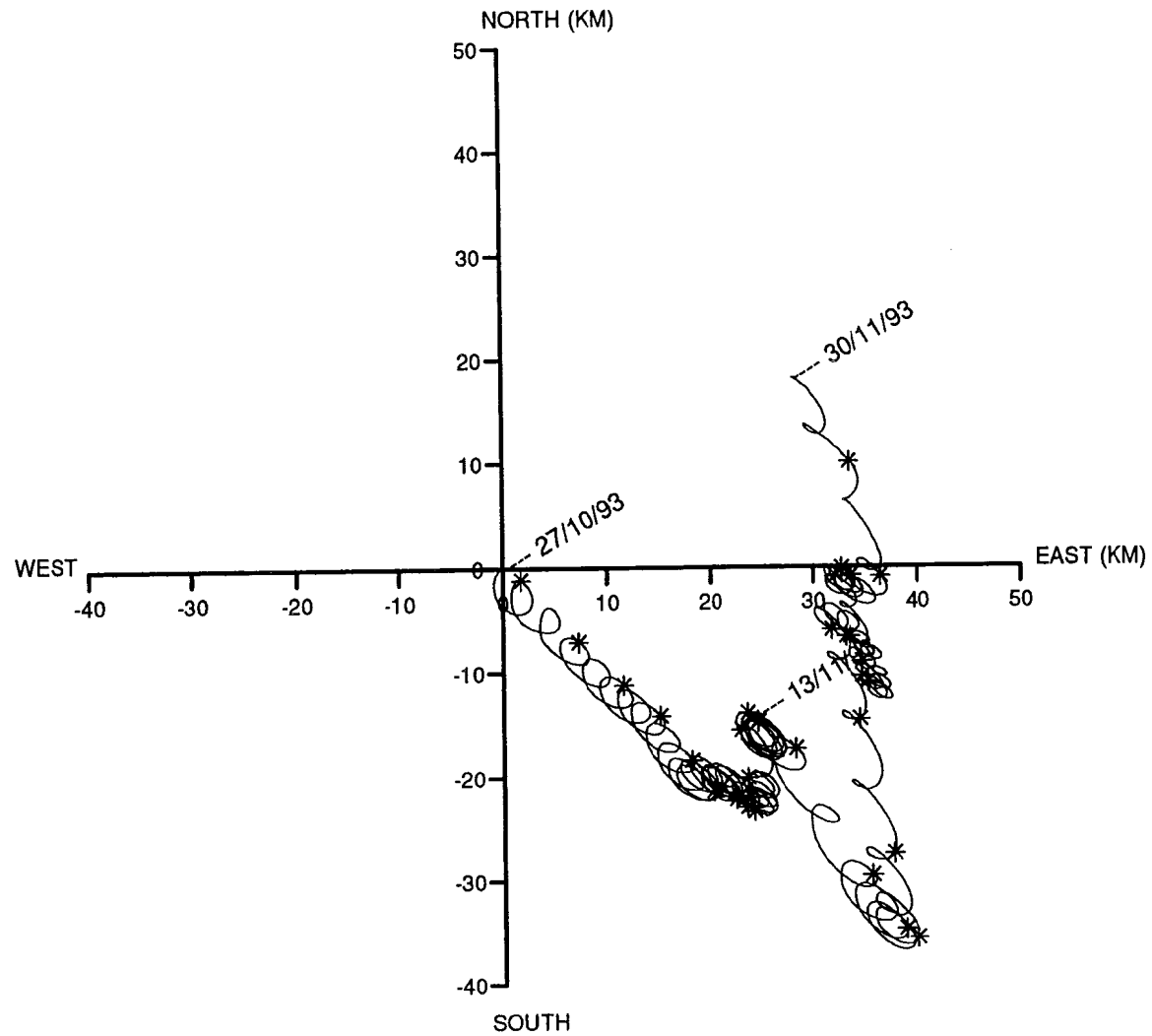


# VECTOR PLOT

Meter no. 6443 Rig no. 00593 Depth of water(m) 20.0

Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00

Position 54 07.18N 03 27.08W Meter Height(m) 3.5



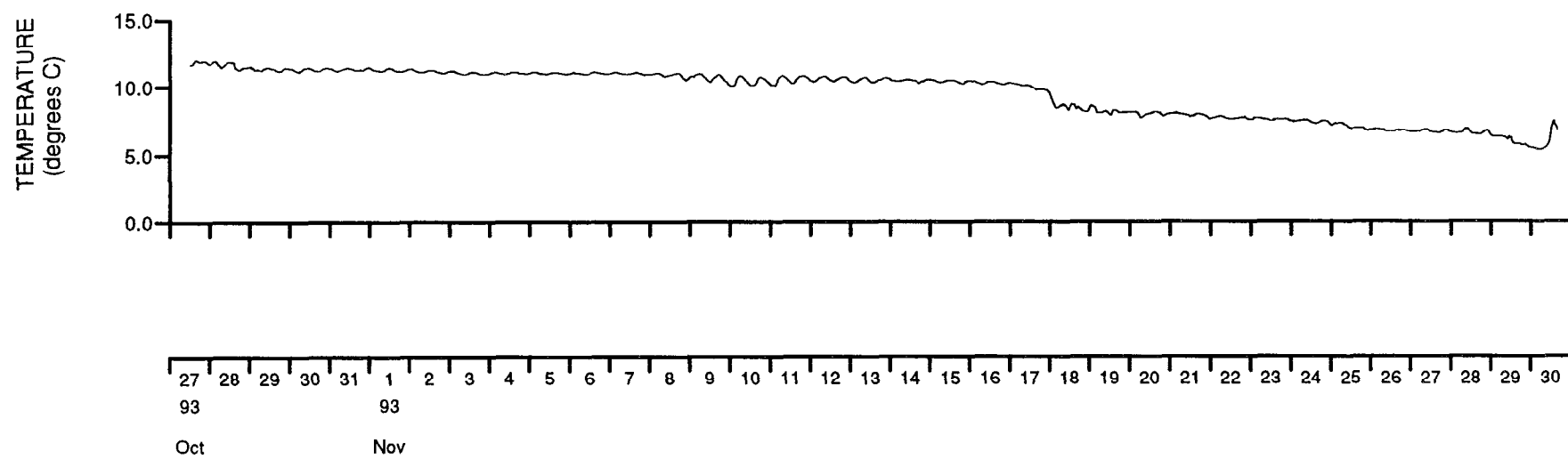


# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 6443 Rig no. 00593 Depth of water(m) 20.0

Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00

Position 54 07.18N 03 27.08W Meter Height(m) 3.5



## Statistics for aa6443b.00593s

	Mean	Variance	Standard deviation
Eastings	0.0095	0.29358646E-01	0.17134365E+00
Northings	0.0062	0.29258521E-01	0.17105122E+00
Speed	0.2224	0.92578633E-02	0.96217796E-01
Vector mean speed	0.0113		
Vector Mean Direction	57.1		

### Maximum ten values

Eastings					Northings				
0.503	0.497	0.486	0.478	0.465	0.466	0.457	0.449	0.448	0.447
0.463	0.458	0.451	0.447	0.434	0.445	0.443	0.438	0.436	0.432

### Minimum ten values

Eastings					Northings				
-0.316	-0.319	-0.323	-0.330	-0.338	-0.498	-0.500	-0.509	-0.519	-0.523
-0.351	-0.364	-0.366	-0.368	-0.387	-0.532	-0.533	-0.549	-0.557	-0.561

### Maximum speeds

0.704	0.702	0.695	0.674	0.663	0.651	0.638	0.637	0.637	0.617
0.616	0.603	0.592	0.590	0.590	0.589	0.586	0.581	0.578	0.575
0.571	0.569	0.562	0.561	0.553	0.553	0.548	0.536	0.536	0.532
0.527	0.526	0.522	0.518	0.516	0.515	0.512	0.512	0.511	0.511
0.509	0.508	0.505	0.499	0.499	0.499	0.499	0.497	0.497	0.497
0.488	0.488	0.488	0.487	0.487	0.484	0.483	0.483	0.483	0.481
0.481	0.481	0.478	0.478	0.477	0.477	0.477	0.476	0.474	0.474
0.474	0.473	0.473	0.471	0.471	0.471	0.470	0.469	0.469	0.469
0.469	0.469	0.467	0.467	0.466	0.466	0.463	0.463	0.463	0.462
0.462	0.459	0.459	0.457	0.457	0.457	0.453	0.453	0.452	0.452

## Variance ellipse statistics

Maximum variance	0.4630E-01	Direction	-45.1
Minimum variance	0.1232E-01	Direction	44.9
Total variance	0.5862E-01	Ratio of variances	0.2661E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		10.1	
Average direction. maxdir +PI/2 to maxdir -PI/2		178.7	

# Filtered Statistics for aa6443b.00593sf

	Mean	Variance	Standard deviation
Eastings	0.0087	0.48855535E-03	0.22103287E-01
Northings	0.0047	0.28324276E-02	0.53220559E-01
Speed	0.0419	0.16481816E-02	0.40597800E-01
Vector mean speed	0.0099		
Vector Mean Direction	61.5		

## Maximum ten values

Eastings					Northings				
0.081	0.077	0.074	0.066	0.061	0.154	0.154	0.148	0.145	0.137
0.048	0.044	0.035	0.033	0.032	0.128	0.118	0.103	0.092	0.073

## Minimum ten values

Eastings					Northings				
-0.023	-0.024	-0.024	-0.027	-0.028	-0.044	-0.046	-0.046	-0.053	-0.071
-0.028	-0.029	-0.031	-0.032	-0.034	-0.094	-0.103	-0.128	-0.131	-0.142

## Maximum speeds

0.163	0.157	0.156	0.152	0.151	0.150	0.148	0.141	0.131	0.123
0.120	0.115	0.105	0.095	0.084	0.077	0.074	0.074	0.072	0.071
0.062	0.061	0.059	0.055	0.054	0.053	0.053	0.052	0.050	0.048
0.047	0.046	0.046	0.046	0.045	0.044	0.044	0.044	0.043	0.043
0.042	0.041	0.040	0.039	0.037	0.037	0.036	0.034	0.034	0.034
0.033	0.033	0.032	0.030	0.028	0.027	0.026	0.024	0.024	0.023
0.023	0.023	0.023	0.023	0.023	0.022	0.021	0.021	0.021	0.019
0.019	0.019	0.017	0.017	0.017	0.017	0.016	0.016	0.016	0.015
0.015	0.015	0.015	0.014	0.014	0.014	0.013	0.012	0.012	0.012
0.012	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010

## Variance ellipse statistics

Maximum variance	0.3252E-02	Direction	-21.3
Minimum variance	0.6891E-04	Direction	68.7
Total variance	0.3321E-02	Ratio of variances	0.2119E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		16.8	
Average direction. maxdir +PI/2 to maxdir -PI/2		155.4	

# STICK TIME SERIES PLOT

Rig no. 00593 Depth of water(m) 20.0

Meter No. Meter Height

Start/End 1993/10/27 AT 12:30:00 1993/11/30 AT 16:00:00

Position 54 07.18N 03 27.08W

Filtered Series

Scale 0.1 m/s

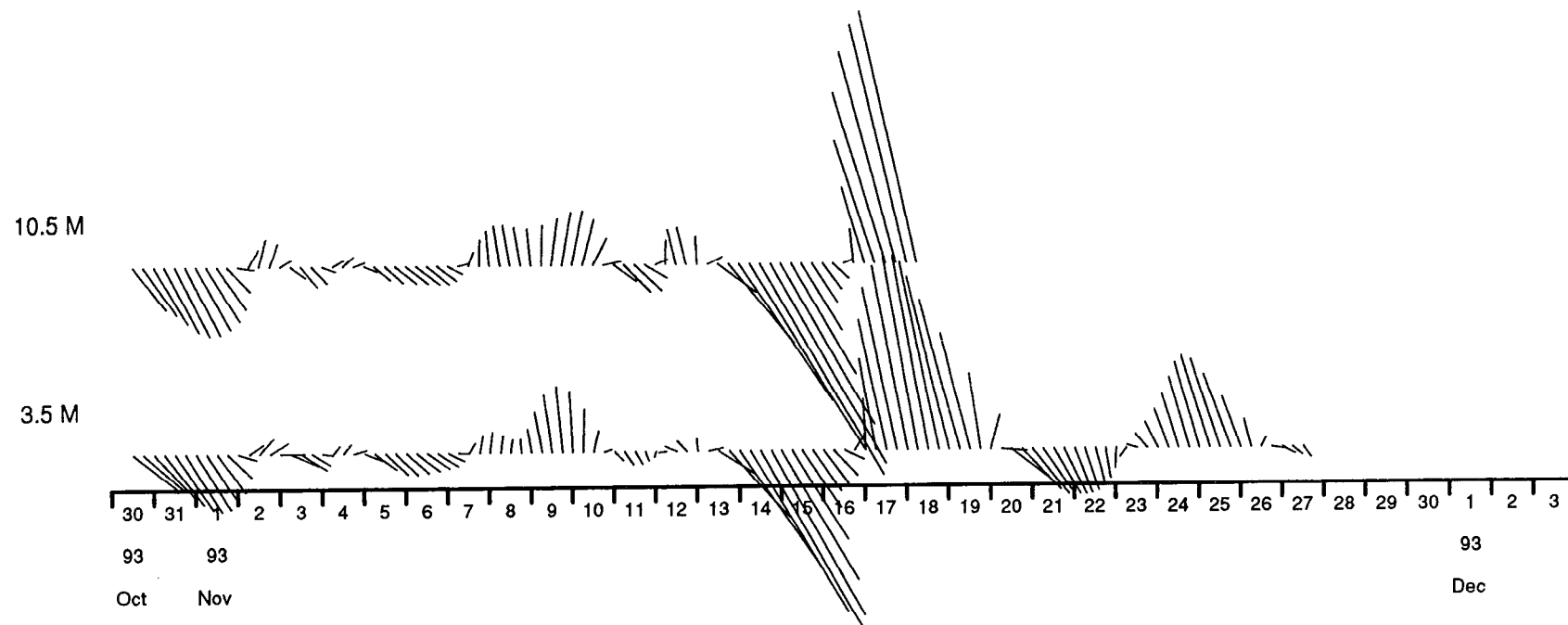


4387

10.5 M

6443

3.5 M



**Rig information details for 00594**

Position Latitude	:	54 07.04N
Position Longitude	:	03 26.50W
Water depth	:	19.0 m
Deployed on cruise	:	CH107
Recovered on cruise	:	P.MADOG
Site name identification	:	Y
Magnetic deviation	:	6.7 degrees west
Rig deployed on	:	27-OCT-93 12:00:00
Rig recovered on	:	07-FEB-94 19:30:00
Period of deployment	:	103.3 days
Comments	:	Long deployment due to inability to recover rig because of bad weather.

**Meter information details for 0001**

Rig No	:	00594
Meter No	:	0001
Recording interval	:	600.0 seconds
Meter height from bottom	:	0.5 m
Meter type	:	DP
Meter started	:	27-OCT-93 10:59:24
Time of last valid scan	:	05-DEC-93 17:39:17
Period of good data	:	39.2 days      short record
Total number of scans	:	5650
Timing error	:	7 seconds fast
Comments	:	Data ends before rig recovery.

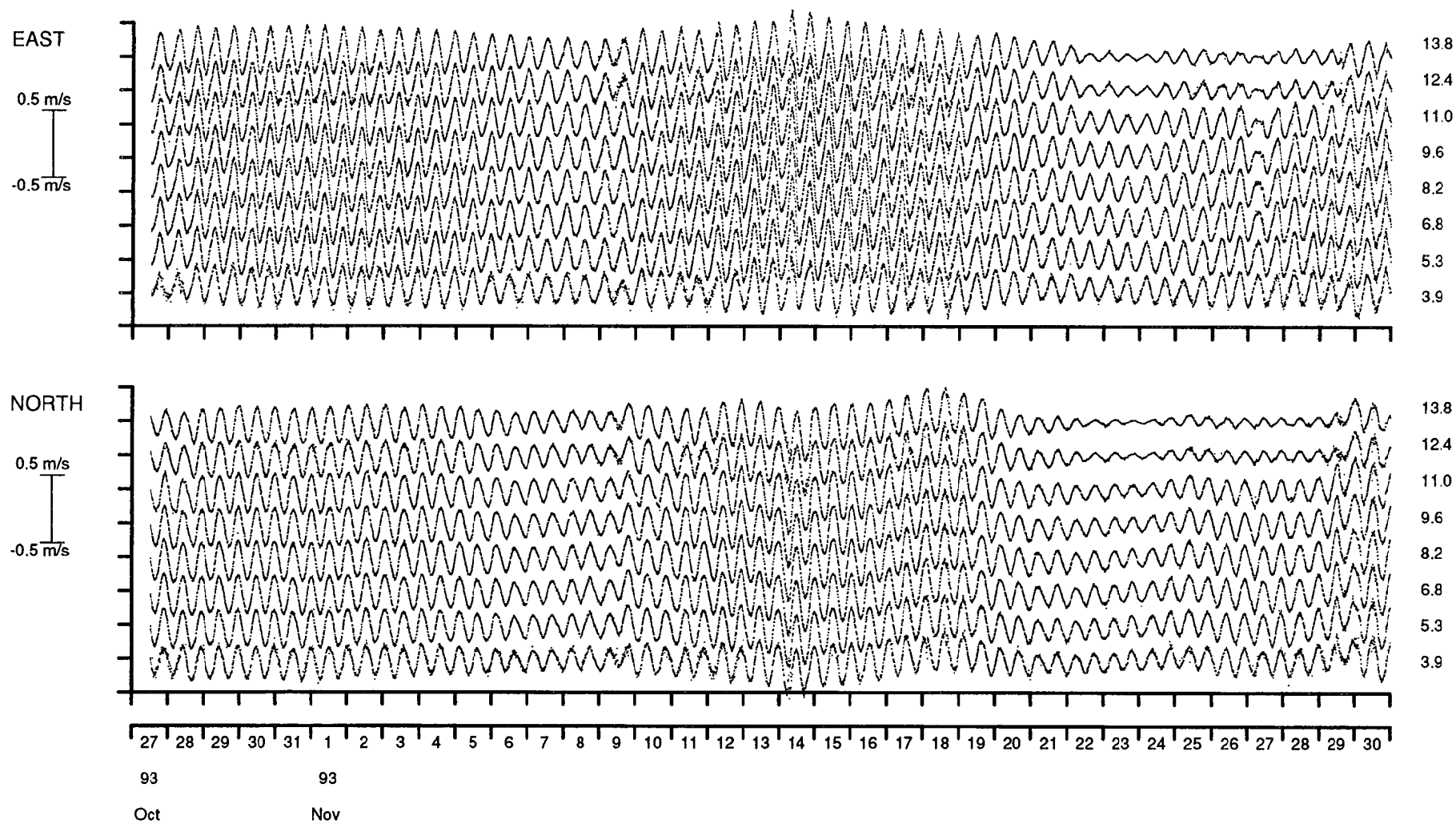
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)



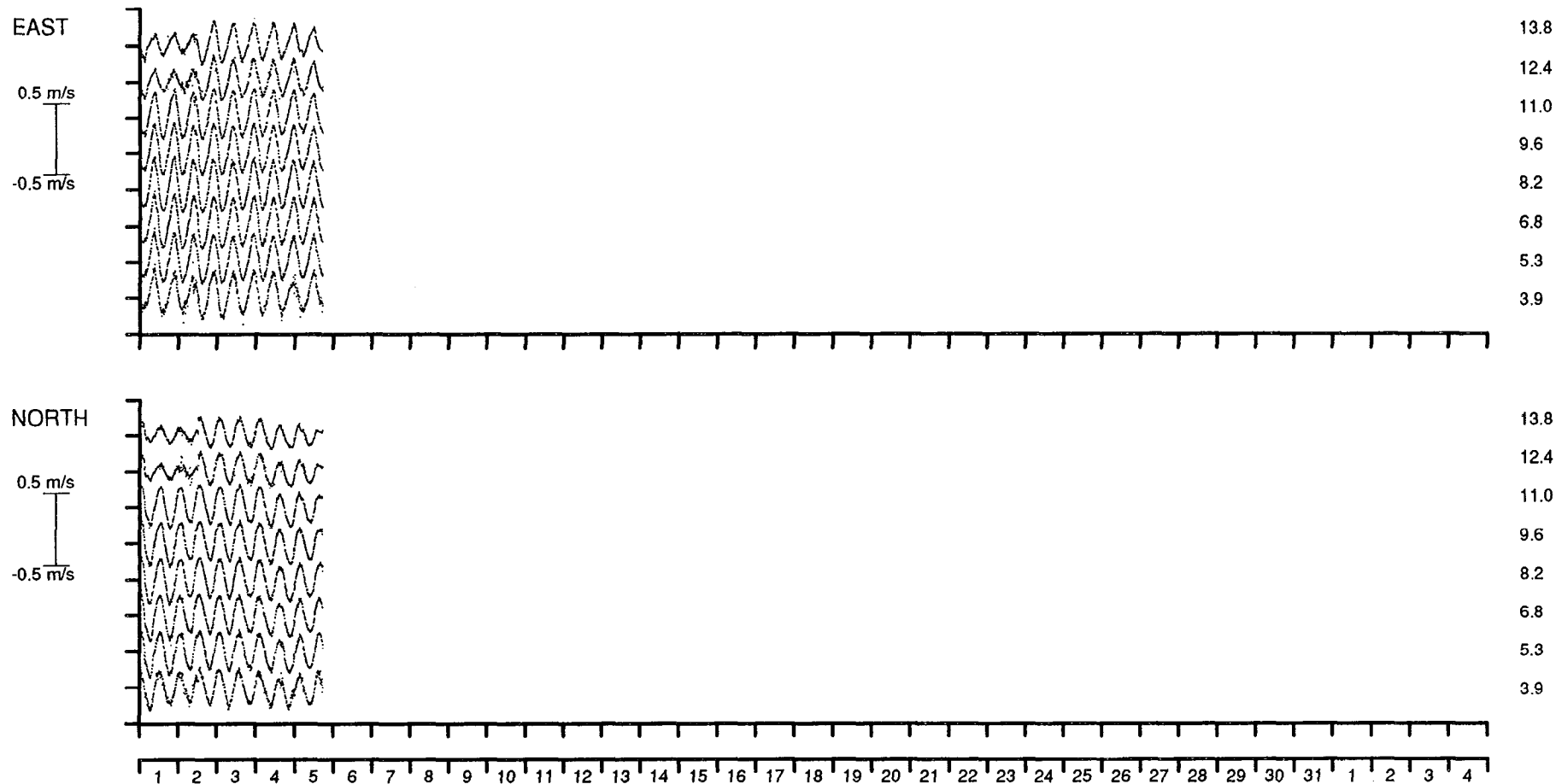
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)





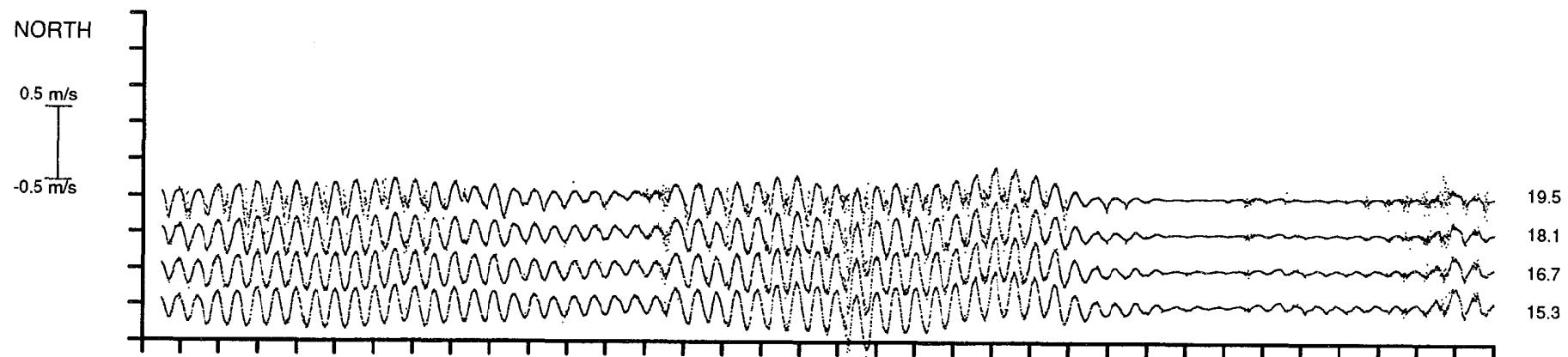
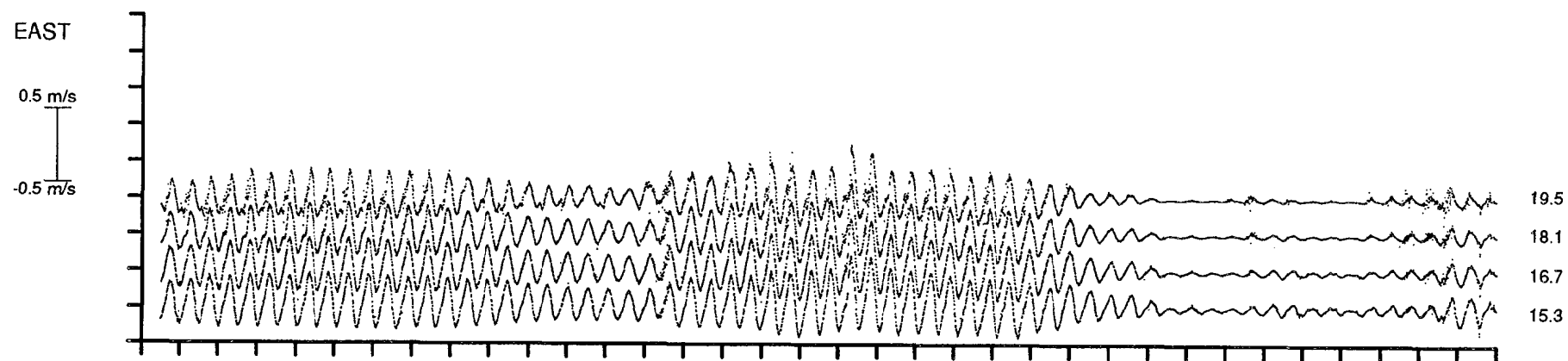
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)



27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

93

93

Oct

Nov

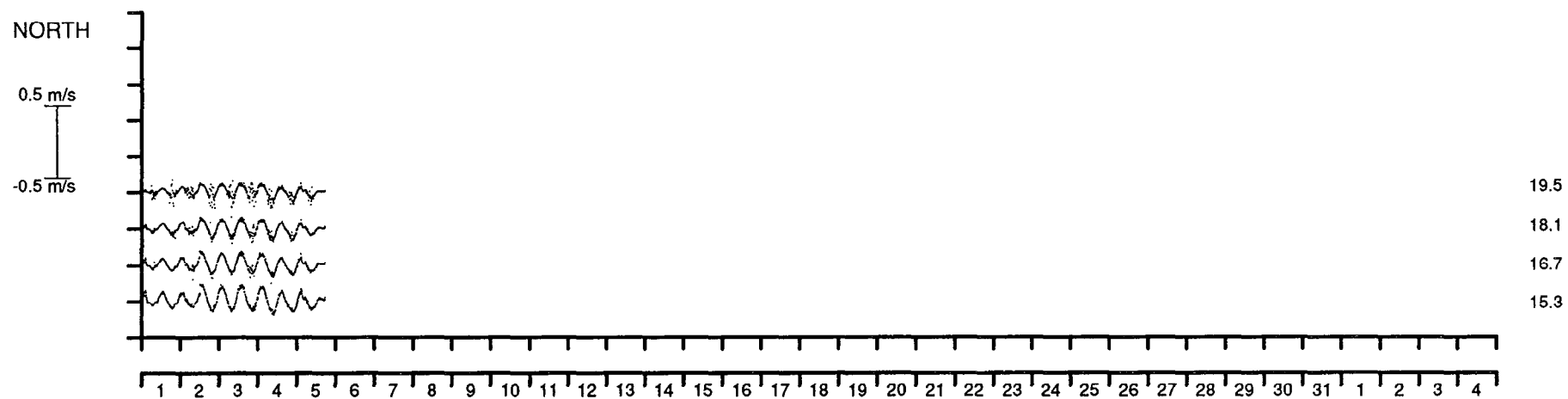
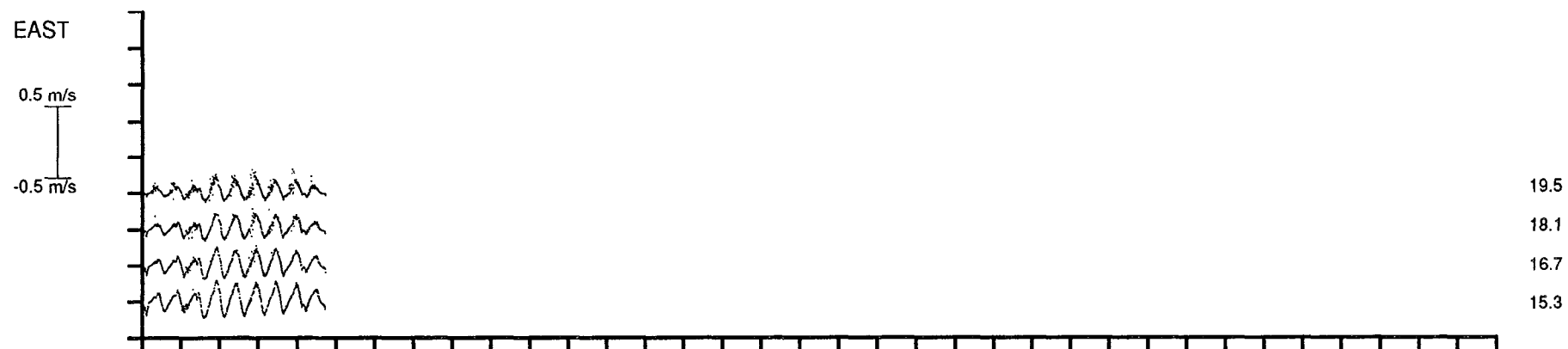
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)



93

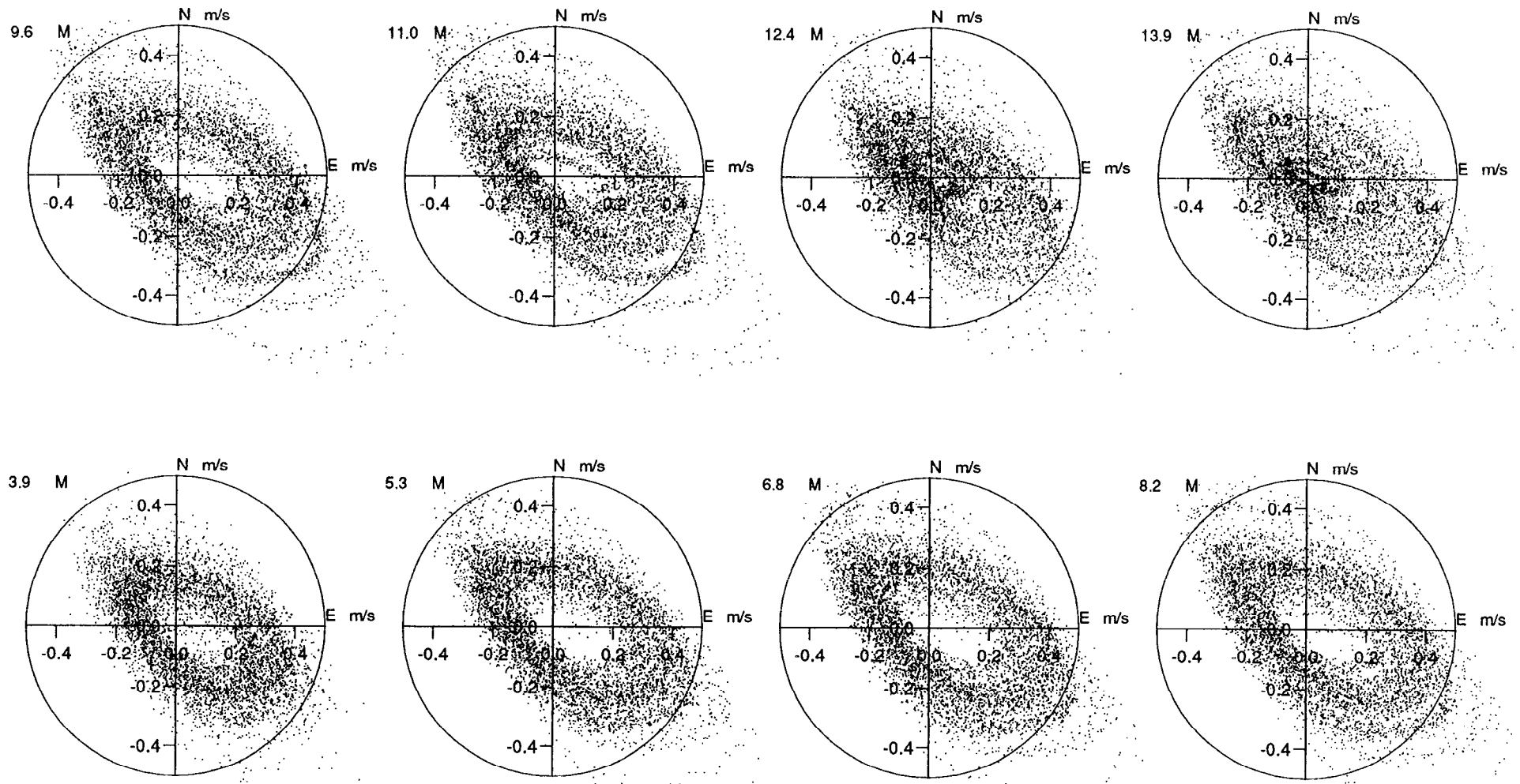
Dec

# SCATTER PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht

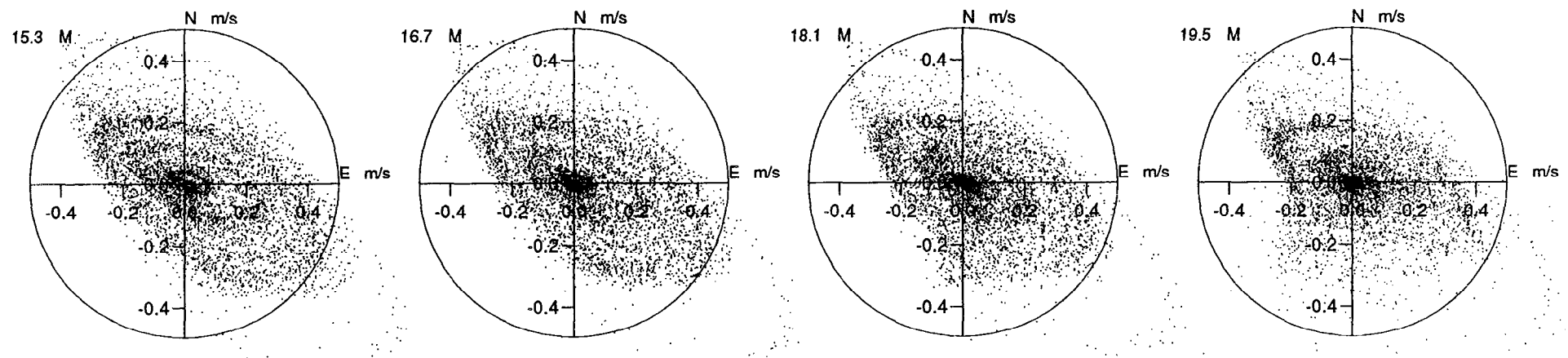


# SCATTER PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht



# STICK TIME SERIES PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

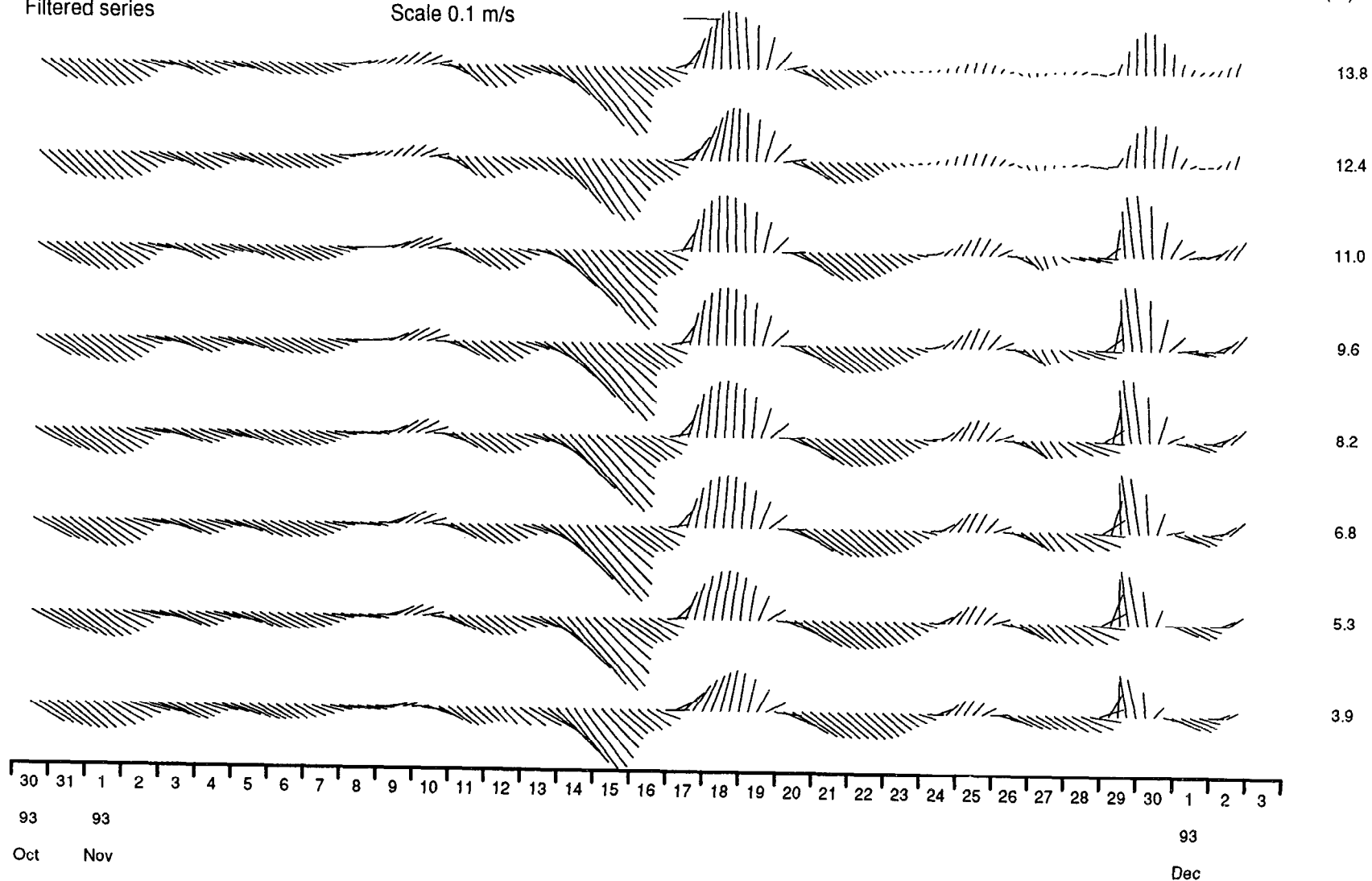
Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

Bin Ht (m)



# STICK TIME SERIES PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

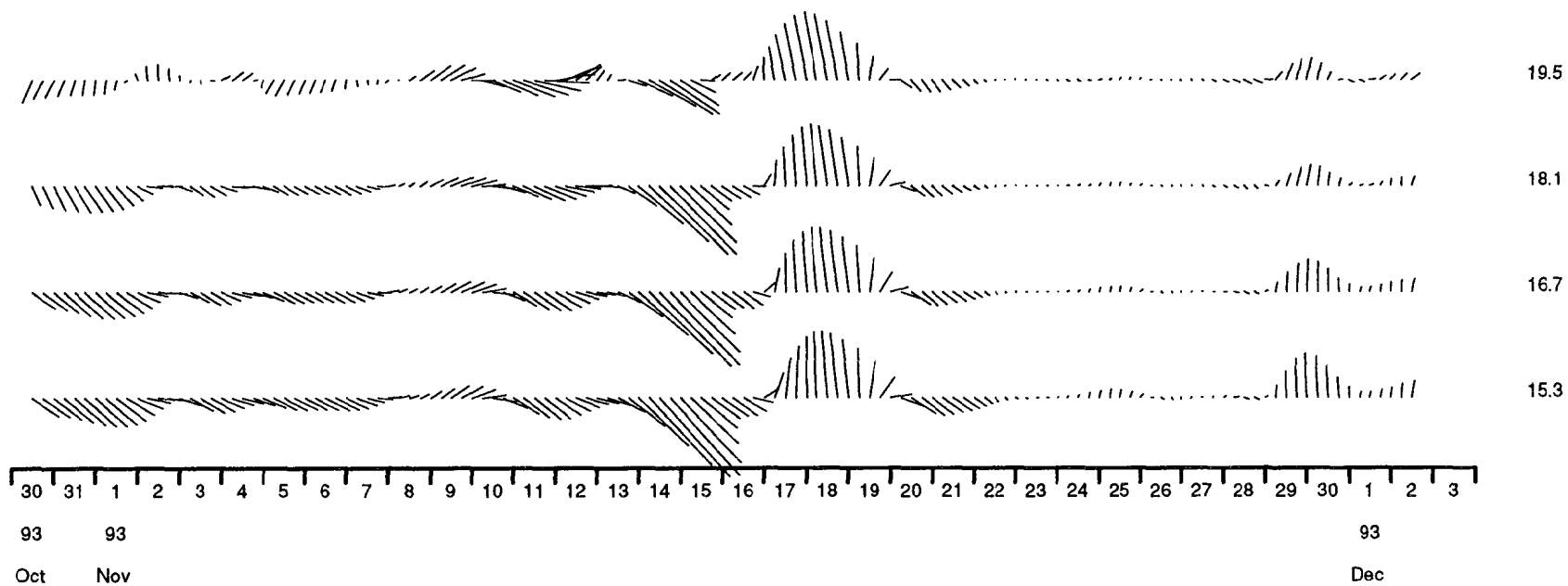
Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

—

Bin Ht (m)



## Statistics for dp0001.00594

### Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.069	110.2	0.0471	-52.7	0.0141	37.3
2	5.3	0.074	106.8	0.0648	-53.7	0.0183	36.3
3	6.8	0.073	105.5	0.0699	-53.4	0.0195	36.6
4	8.2	0.071	104.6	0.0716	-53.1	0.0196	36.9
5	9.6	0.067	103.5	0.0707	-53.0	0.0189	37.0
6	11.0	0.062	102.5	0.0669	-53.0	0.0173	37.0
7	12.4	0.049	106.8	0.0466	-52.2	0.0116	37.8
8	13.8	0.045	103.1	0.0510	-53.5	0.0124	36.5
9	15.3	0.040	101.3	0.0493	-54.6	0.0119	35.4
10	16.7	0.035	101.1	0.0439	-55.6	0.0106	34.4
11	18.1	0.029	105.6	0.0366	-56.6	0.0100	33.4
12	19.5	0.014	94.3	0.0286	-63.4	0.0105	26.6

## Statistics for dp0001.00594

### Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.067	108.7	0.0031	-25.6	0.0001	64.4
2	5.3	0.071	105.5	0.0047	-27.5	0.0001	62.5
3	6.8	0.069	104.1	0.0053	-26.9	0.0001	63.1
4	8.2	0.067	103.0	0.0056	-26.7	0.0001	63.3
5	9.6	0.064	101.6	0.0058	-26.6	0.0002	63.4
6	11.0	0.059	100.4	0.0059	-27.1	0.0002	62.9
7	12.4	0.046	105.0	0.0038	-24.4	0.0003	65.6
8	13.8	0.043	101.2	0.0043	-27.2	0.0003	62.8
9	15.3	0.038	98.9	0.0042	-29.8	0.0003	60.2
10	16.7	0.034	98.2	0.0037	-31.2	0.0003	58.8
11	18.1	0.029	99.6	0.0030	-30.3	0.0003	59.7
12	19.5	0.017	74.8	0.0020	-28.0	0.0008	62.0



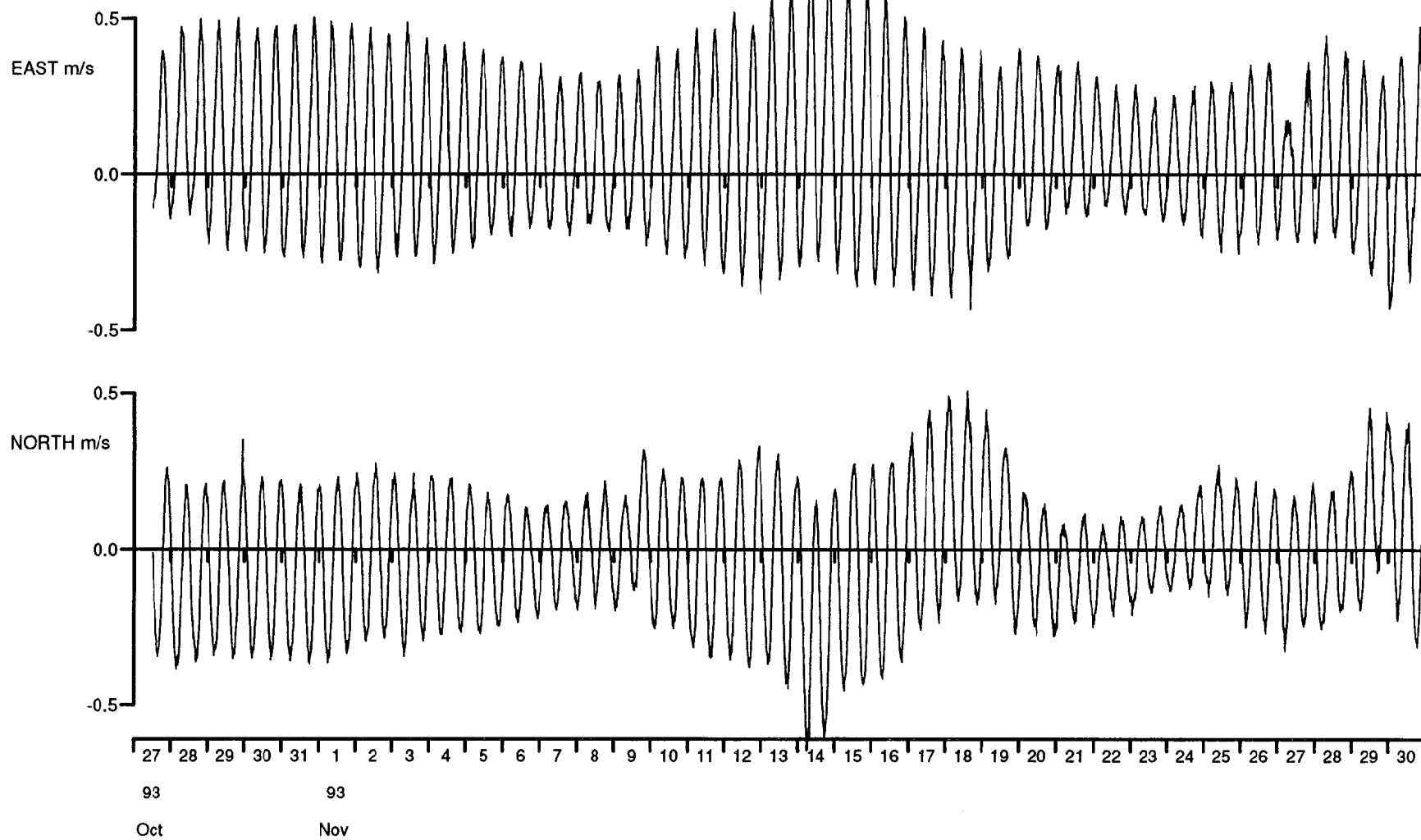
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht 8.2 Bin Ht (m)

Bin closest to depth average



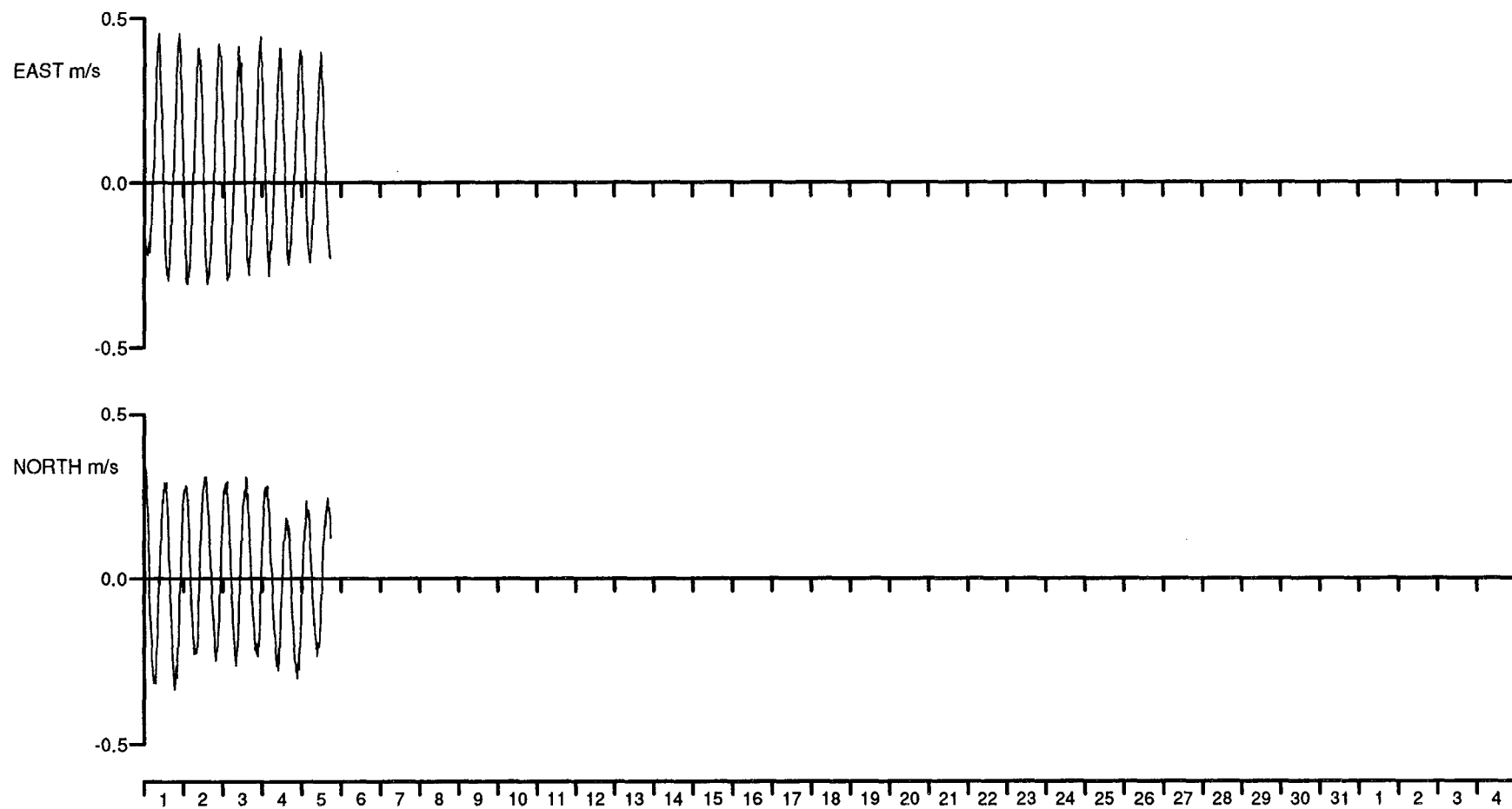
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht 8.2 Bin Ht (m)

Bin closest to depth average



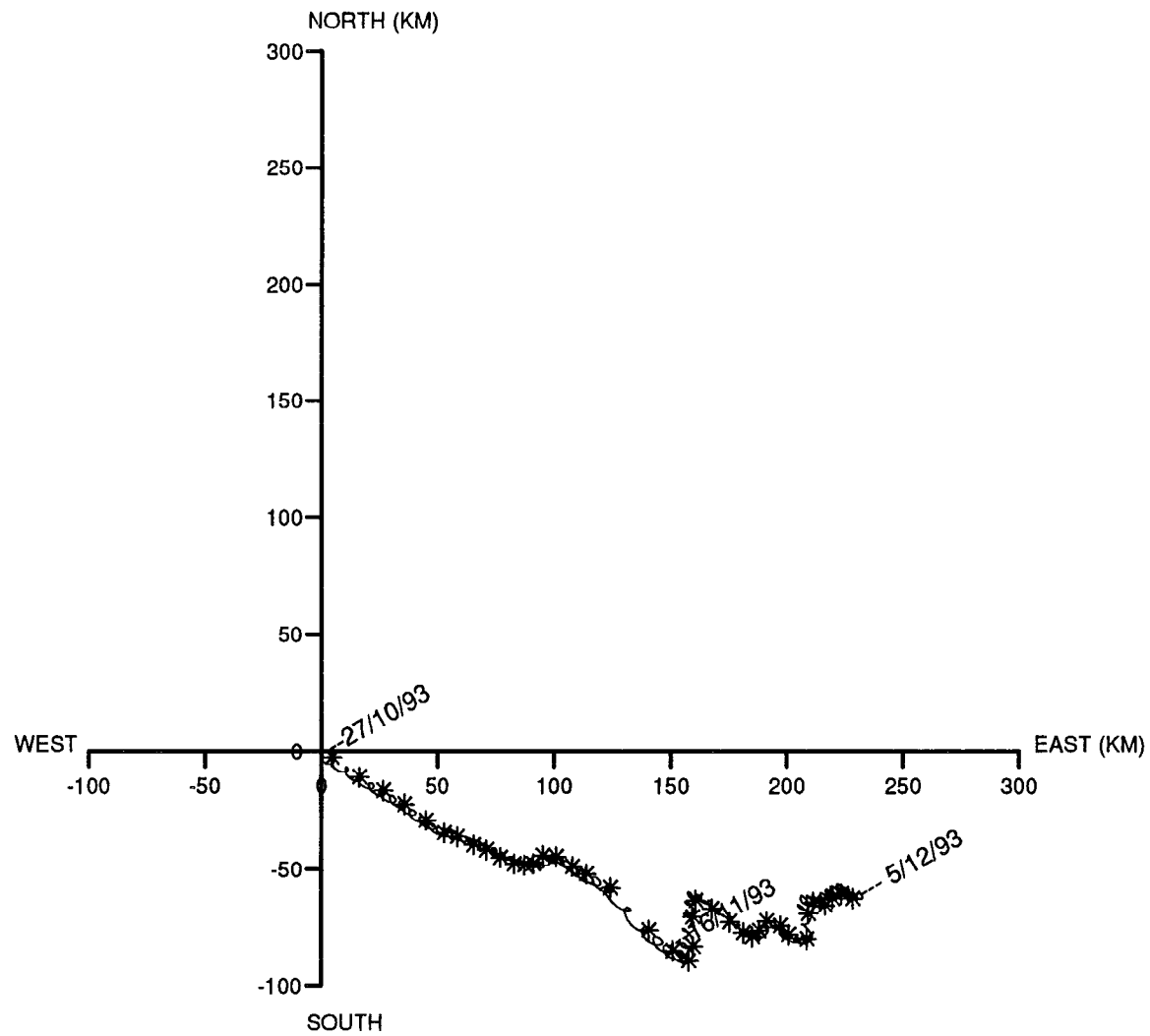
# VECTOR PLOT

Meter no. 0001 Rig no. 00594 Depth of water(m) 19.0

Start/End 1993/10/27 AT 12:00:00 1994/02/07 AT 19:30:00

Position 54 07.04N 03 26.50W 3.91 Base Ht 1.42 Gap Ht 8.2 Bin Ht (m)

Bin closest to depth average



## Statistics for dp0001.00594s4

Doppler bin number 4

	Mean	Variance	Standard deviation
Eastings	0.0683	0.52853204E-01	0.22989824E+00
Northings	-0.0177	0.38316216E-01	0.19574527E+00
Speed	0.2835	0.15783330E-01	0.12563172E+00
Vector mean speed	0.0705		
Vector Mean Direction	104.6		

### Maximum ten values

Eastings					Northings				
0.749	0.734	0.706	0.706	0.704	0.508	0.490	0.483	0.482	0.479
0.700	0.694	0.688	0.675	0.672	0.477	0.475	0.468	0.466	0.466

### Minimum ten values

Eastings					Northings				
-0.393	-0.394	-0.394	-0.395	-0.395	-0.602	-0.608	-0.608	-0.609	-0.609
-0.399	-0.399	-0.419	-0.428	-0.431	-0.613	-0.615	-0.644	-0.644	-0.648

### Maximum speeds

0.961	0.931	0.901	0.886	0.884	0.866	0.857	0.855	0.842	0.836
0.818	0.799	0.799	0.799	0.796	0.790	0.788	0.783	0.777	0.771
0.770	0.769	0.761	0.760	0.753	0.752	0.751	0.737	0.718	0.714
0.703	0.701	0.698	0.698	0.697	0.696	0.694	0.693	0.692	0.690
0.684	0.683	0.683	0.682	0.677	0.676	0.669	0.668	0.667	0.666
0.666	0.666	0.663	0.661	0.660	0.660	0.658	0.655	0.652	0.651
0.649	0.645	0.643	0.641	0.641	0.640	0.639	0.637	0.637	0.635
0.631	0.630	0.629	0.622	0.621	0.618	0.618	0.618	0.618	0.617
0.616	0.616	0.613	0.613	0.612	0.611	0.610	0.609	0.608	0.607
0.606	0.603	0.601	0.600	0.599	0.599	0.598	0.594	0.594	0.592

## Variance ellipse statistics

Maximum variance	0.7162E-01	Direction	-53.1
Minimum variance	0.1955E-01	Direction	36.9
Total variance	0.9117E-01	Ratio of variances	0.2730E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		15.9	
Average direction. maxdir +PI/2 to maxdir -PI/2		177.5	

# **Filtered Statistics for dp0001.00594s4f**

Doppler bin number 4

	Mean	Variance	Standard deviation
Eastings	0.0652	0.12443640E-02	0.35275541E-01
Northings	-0.0151	0.45100516E-02	0.67156918E-01
Speed	0.0911	0.18968824E-02	0.43553215E-01
Vector mean speed	0.0669		
Vector Mean Direction	103.0		

## Maximum ten values

Eastings					Northings				
0.183	0.177	0.173	0.158	0.150	0.170	0.163	0.150	0.148	0.145
0.133	0.123	0.111	0.103	0.102	0.142	0.136	0.132	0.125	0.115

## Minimum ten values

Eastings					Northings				
0.011	0.011	0.009	0.007	0.005	-0.074	-0.074	-0.086	-0.095	-0.119
0.005	-0.006	-0.008	-0.023	-0.025	-0.147	-0.161	-0.190	-0.196	-0.209

## Maximum speeds

0.277	0.264	0.257	0.225	0.210	0.178	0.171	0.165	0.155	0.151
0.148	0.145	0.142	0.141	0.137	0.132	0.126	0.125	0.125	0.123
0.123	0.123	0.121	0.120	0.119	0.118	0.116	0.116	0.116	0.115
0.114	0.113	0.113	0.111	0.110	0.110	0.108	0.107	0.106	0.101
0.097	0.095	0.095	0.095	0.094	0.093	0.093	0.093	0.092	0.092
0.092	0.091	0.091	0.091	0.091	0.090	0.087	0.087	0.087	0.087
0.086	0.085	0.083	0.082	0.082	0.082	0.081	0.081	0.080	0.080
0.079	0.078	0.077	0.076	0.075	0.075	0.073	0.072	0.071	0.071
0.070	0.070	0.070	0.069	0.069	0.068	0.068	0.068	0.068	0.067
0.066	0.066	0.066	0.065	0.065	0.063	0.063	0.062	0.062	0.061

## Variance ellipse statistics

Maximum variance	0.5610E-02	Direction	-26.7
Minimum variance	0.1441E-03	Direction	63.3
Total variance	0.5754E-02	Ratio of variances	0.2569E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		51.9	
Average direction. maxdir +PI/2 to maxdir -PI/2		140.5	

**Rig information details for 00602**

Position Latitude	:	54 07.25N
Position Longitude	:	03 26.86W
Water depth	:	18.0 m
Deployed on cruise	:	P.MADOG
Recovered on cruise	:	P.MADOG
Site name identification	:	Y
Magnetic deviation	:	6.7 degrees west
Rig deployed on	:	01-DEC-93 07:30:00
Rig recovered on	:	07-FEB-94 15:59:00
Period of deployment	:	68.4 days
Comments	:	Long deployment due to inability to recover rig because of bad weather.

**Meter information details for 4387**

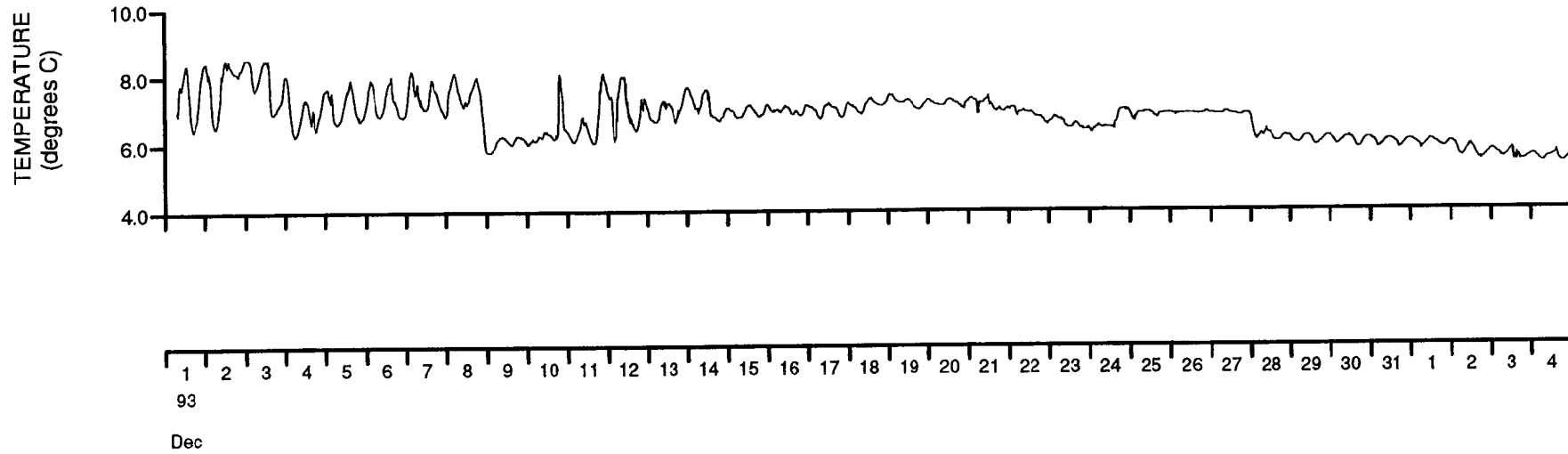
Rig No	: 00602
Meter No	: 4387
Recording interval	: 600.0 seconds
Meter height from bottom	: 10.5 m
Position of meter on rig	: T
Meter type	: AA
Meter started	: 30-NOV-93 19:00:00
Meter stopped	: 09-FEB-94 00:49:00
Period switched on	: 70.2 days
Period of good data	: 68.3 days
Total number of scans	: 9842
Timing error	: 60 seconds fast
Comments	: Temperature only, speed channel recorded all zero's.

# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 4387 Rig no. 00602 Depth of water(m) 18.0

Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00

Position 54 07.25N 03 26.86W Meter Height(m) 10.5



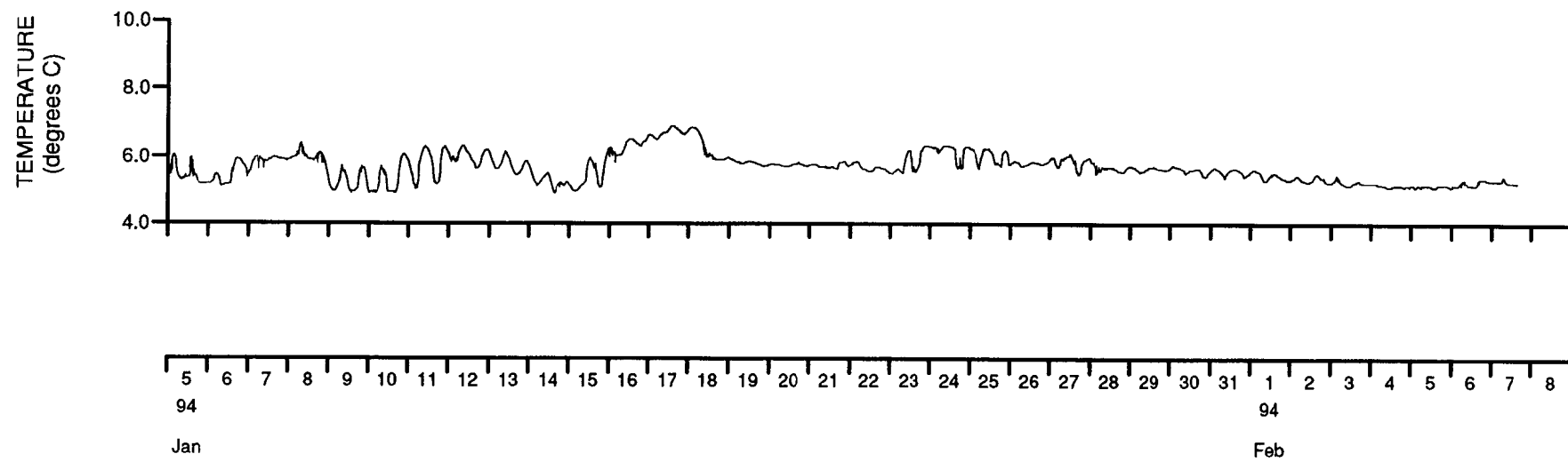


# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 4387 Rig no. 00602 Depth of water(m) 18.0

Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00

Position 54 07.25N 03 26.86W Meter Height(m) 10.5



**Meter information details for 6443**

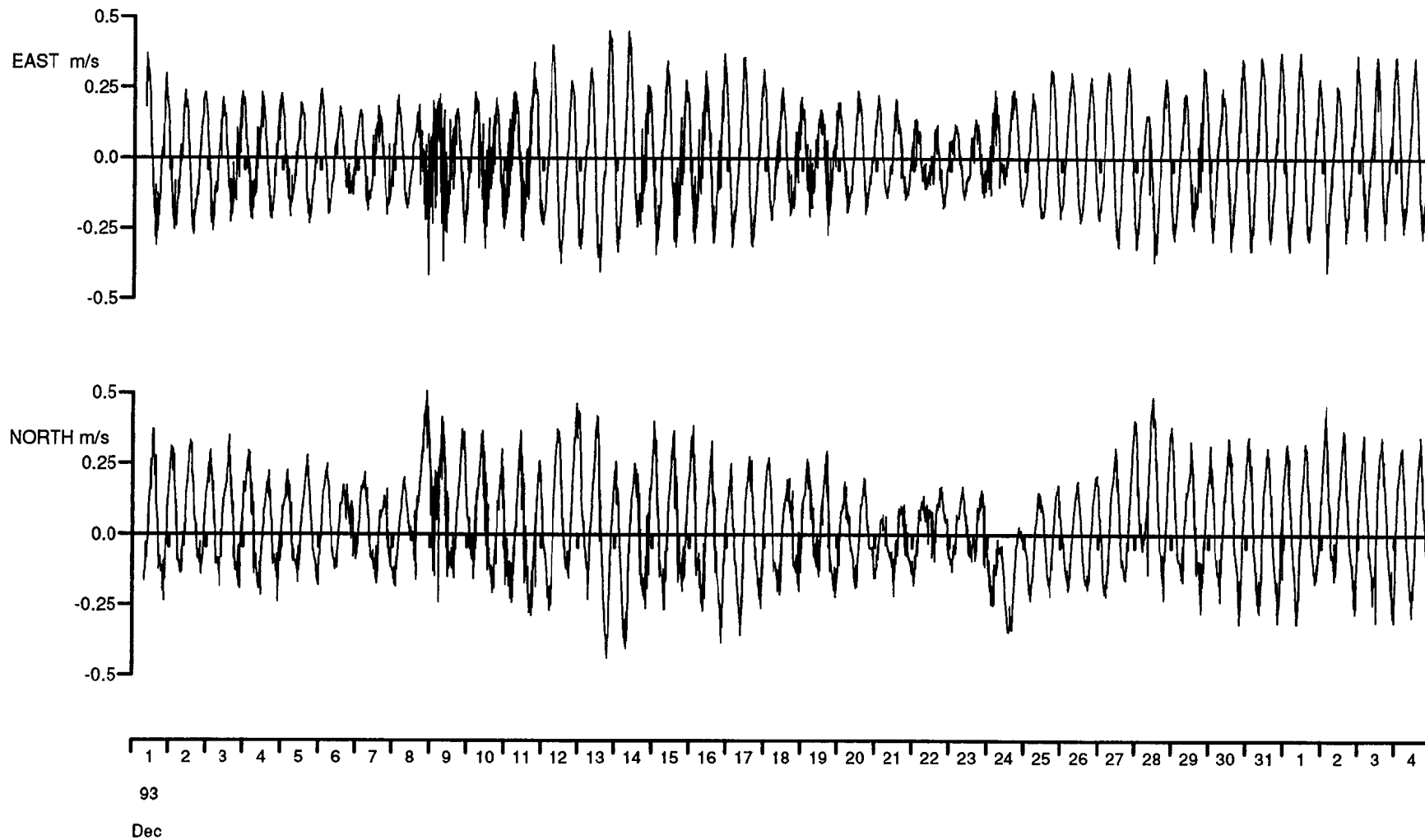
Rig No	:	00602
Meter No	:	6443
Recording interval	:	600.0 seconds
Meter height from bottom	:	3.5 m
Position of meter on rig	:	B
Meter type	:	AA
Meter started	:	30-NOV-93 19:00:00
Time of last valid scan	:	07-FEB-94 19:30:00
Period of good data	:	48.2 days      short record
Total number of scans	:	6934
Timing error	:	None
Comments	:	Data truncated at 18/1/94(1100) due to numerous spikes. Conductivity jammed 9/12/93(1150) - 22/2/94(1610) inclusive.

# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 6443 Rig no. 00602 Depth of water(m) 18.0

Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00

Position 54 07.25N 03 26.86W Meter Height(m) 3.5

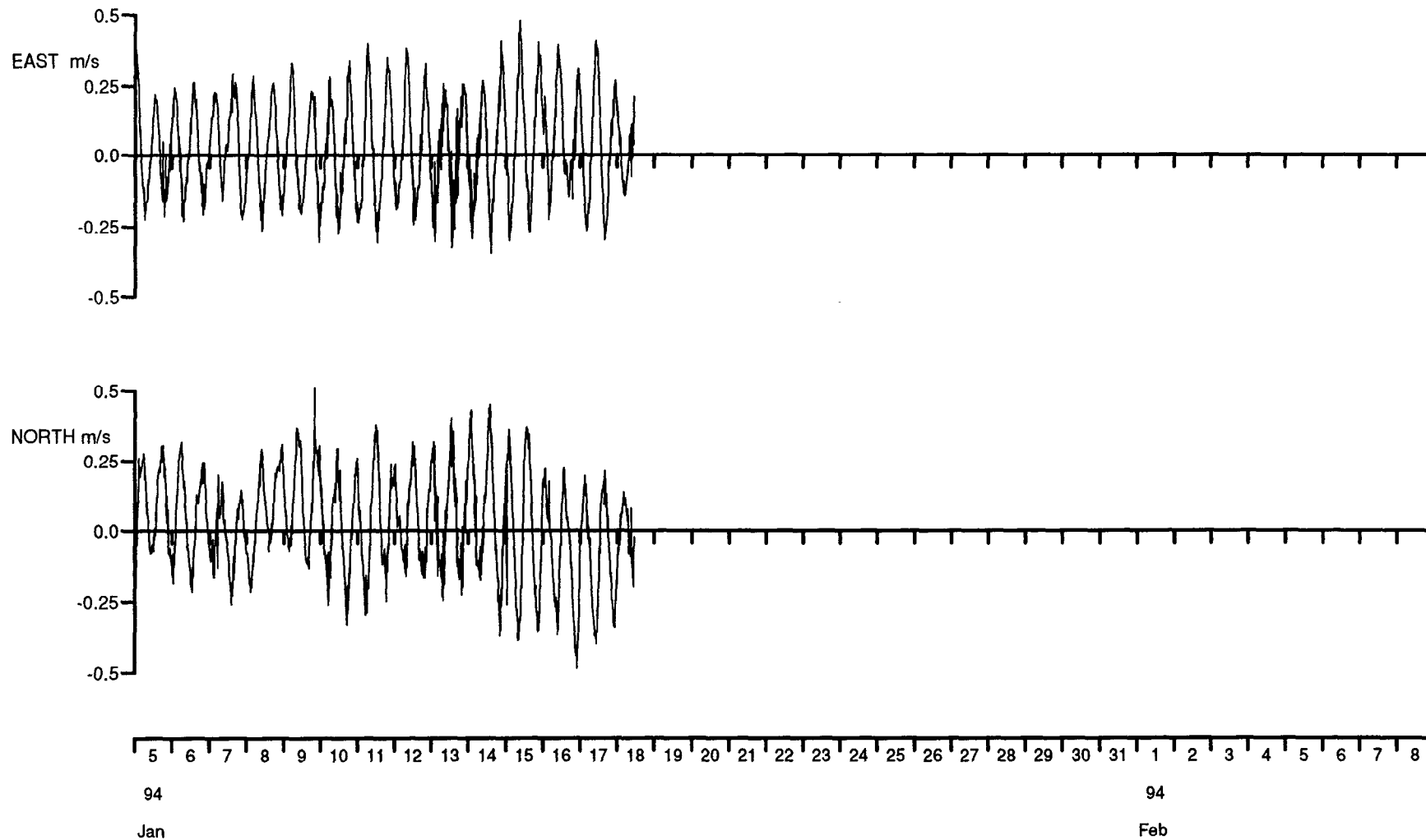


VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 6443 Rig no. 00602 Depth of water(m) 18.0

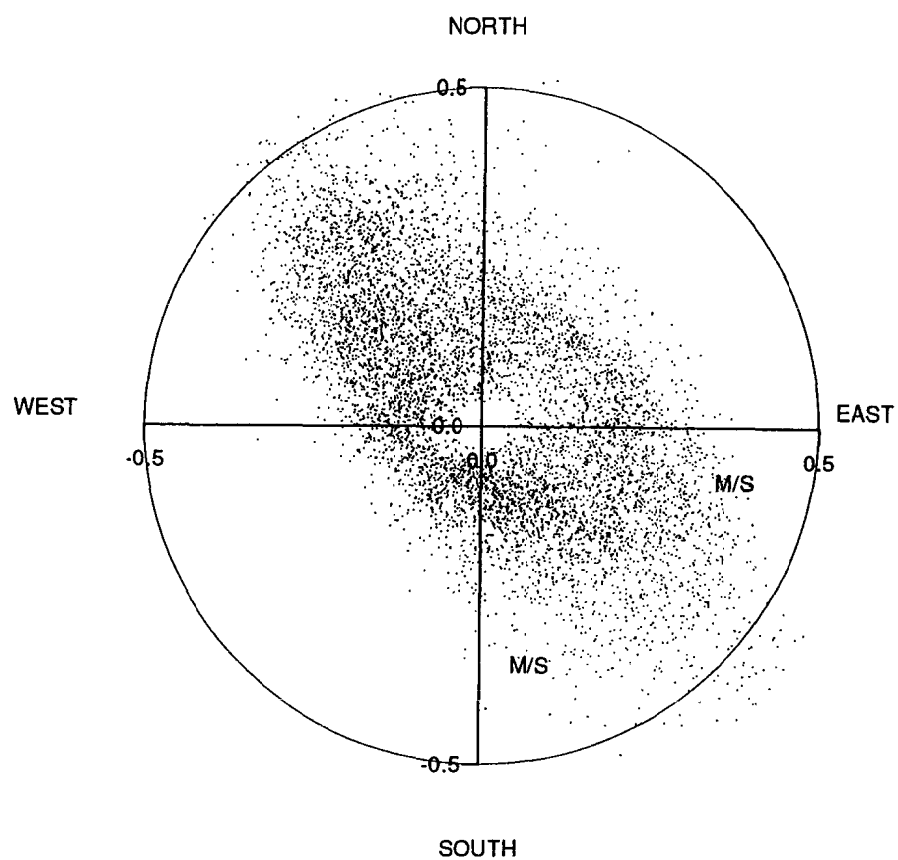
Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00

Position 54 07.25N 03 26.86W Meter Height(m) 3.5



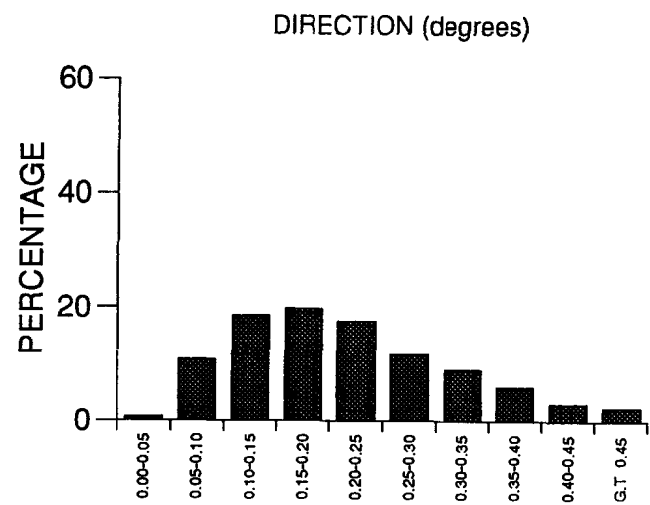
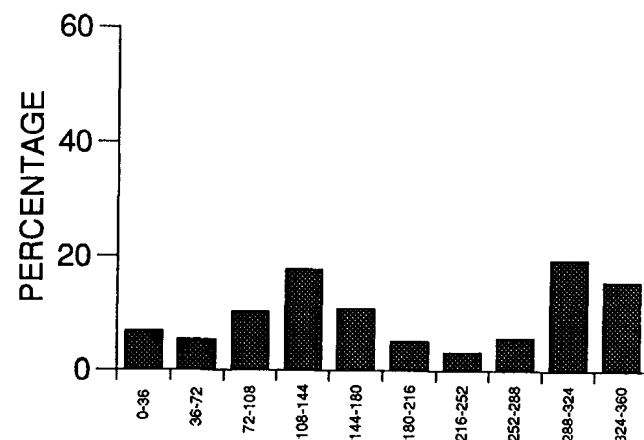
# SCATTER PLOT

Meter no. 6443 Rig no. 00602 Depth of water(m) 18.0  
 Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00  
 Position 54 07.25N 03 26.86W Meter Height(m) 3.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 6443 Rig no. 00602 Depth of water(m) 18.0  
 Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00  
 Position 54 07.25N 03 26.86W Meter Height(m) 3.5

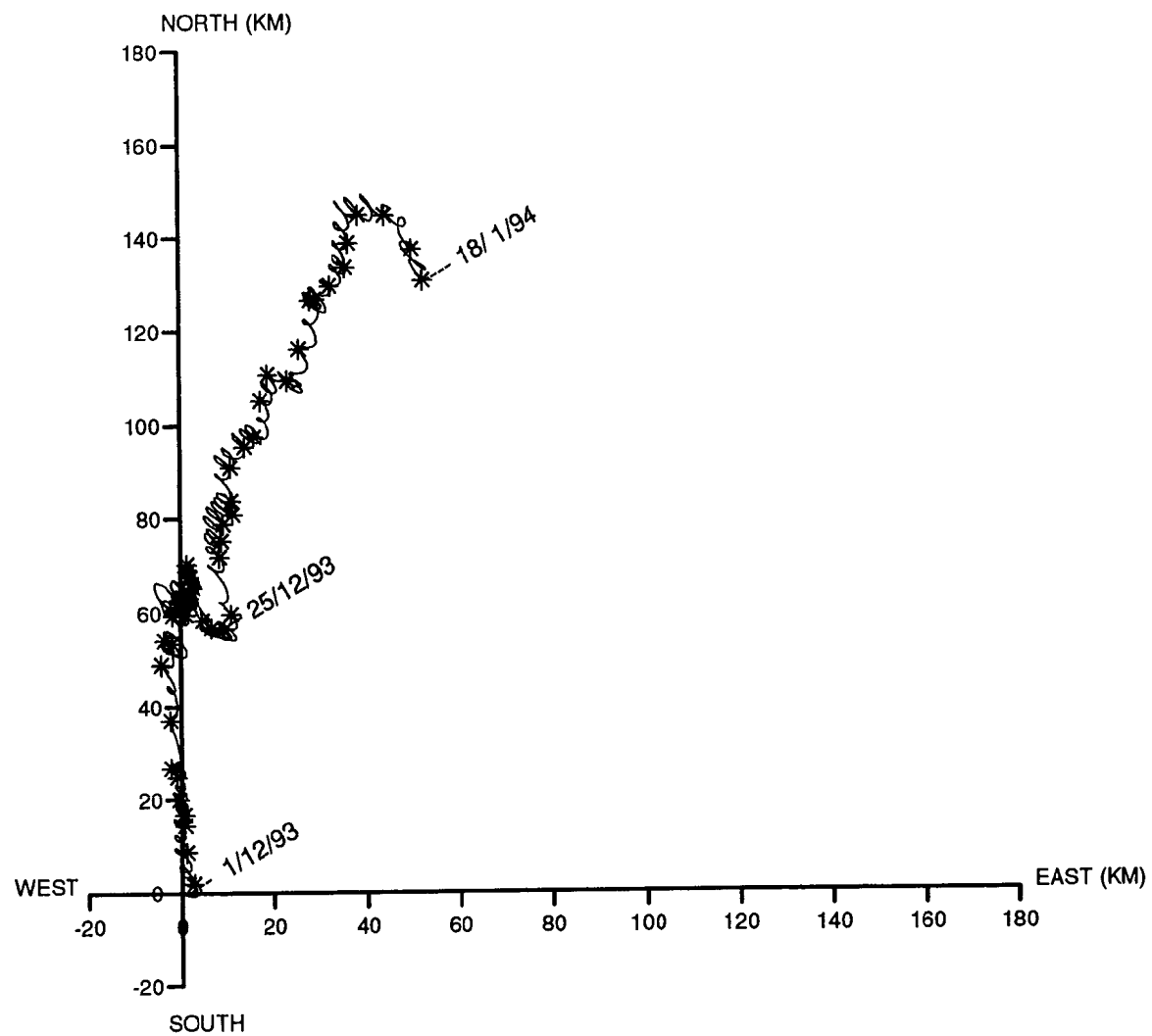


# VECTOR PLOT

Meter no. 6443 Rig no. 00602 Depth of water(m) 18.0

Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00

Position 54 07.25N 03 26.86W Meter Height(m) 3.5

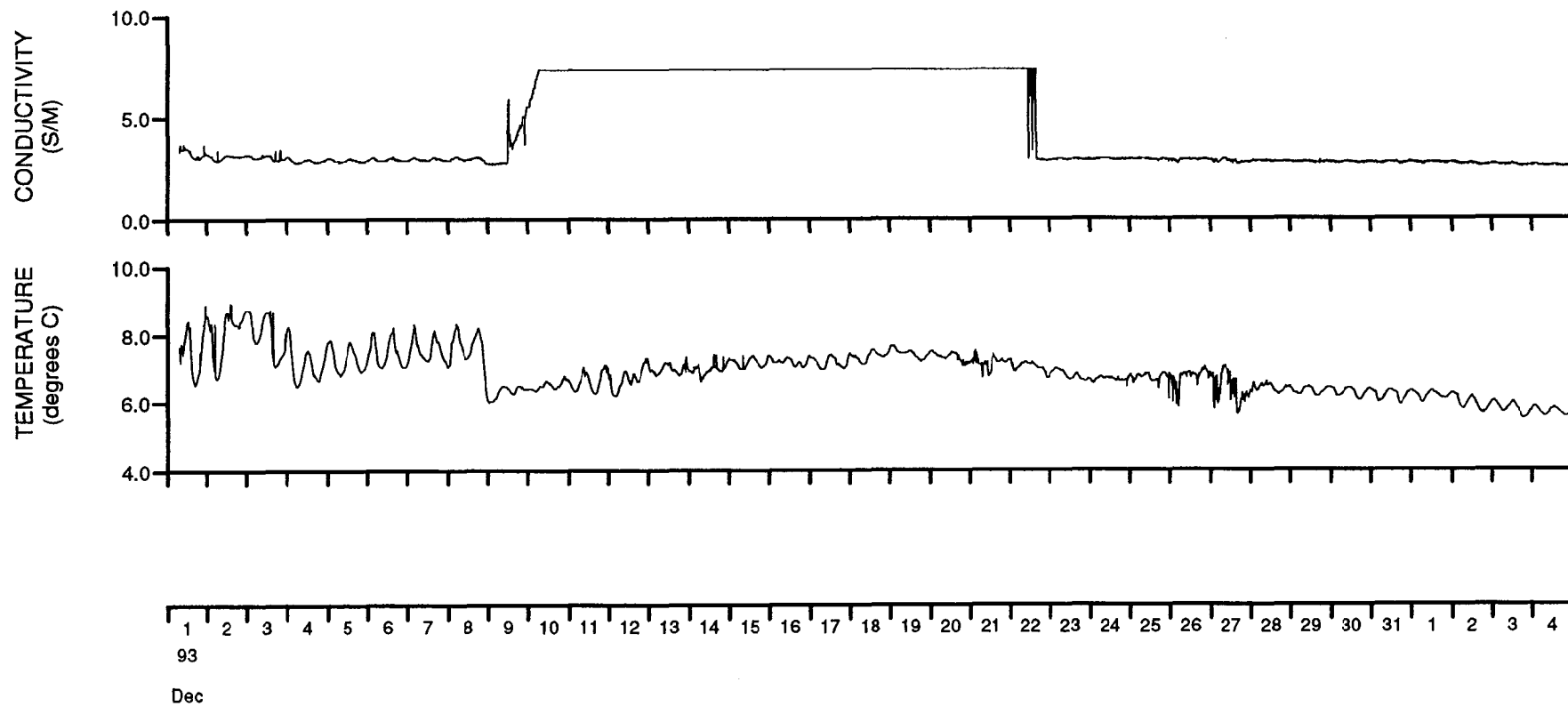


# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 6443 Rig no. 00602 Depth of water(m) 18.0

Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00

Position 54 07.25N 03 26.86W Meter Height(m) 3.5

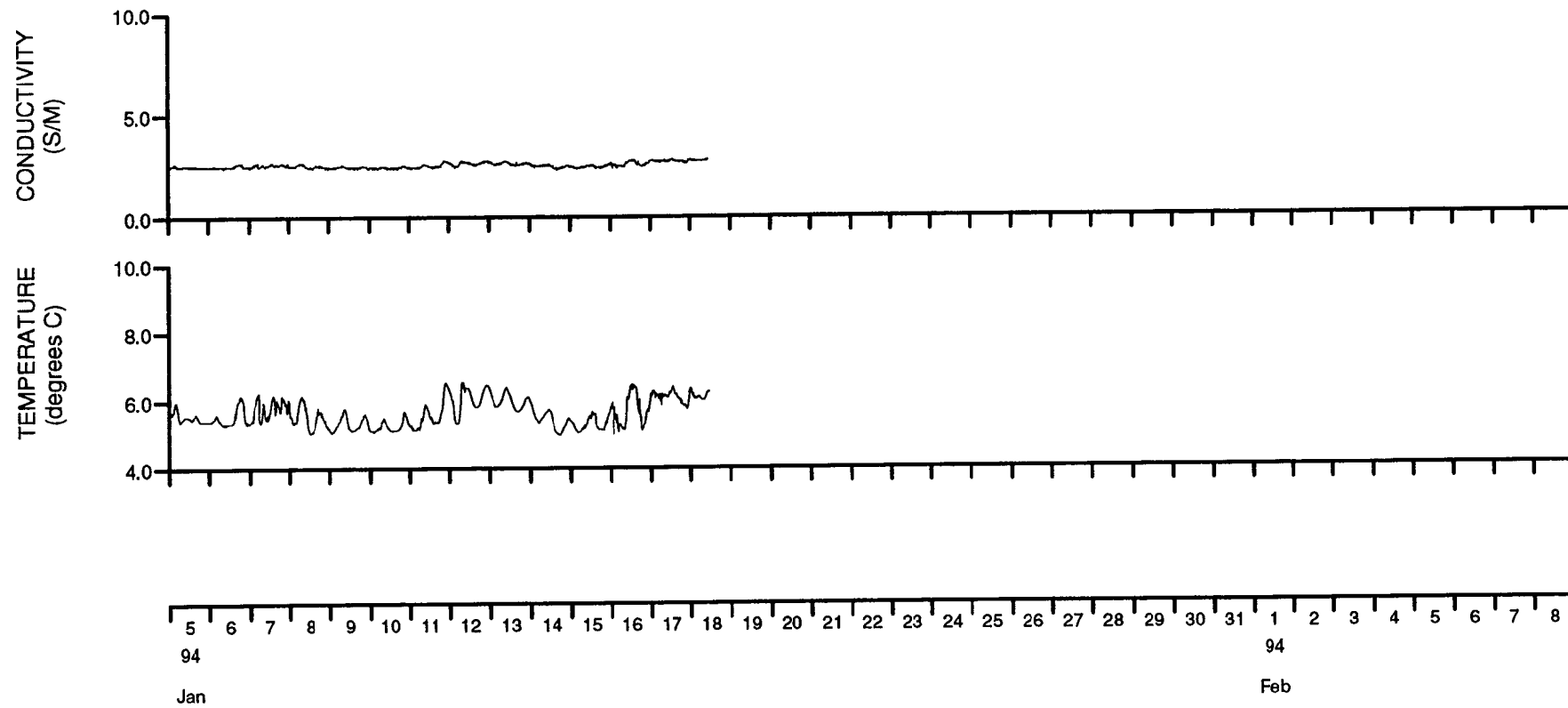


# TEMPERATURE, CONDUCTIVITY AND PRESSURE TIME SERIES PLOTS

Meter no. 6443 Rig no. 00602 Depth of water(m) 18.0

Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00

Position 54 07.25N 03 26.86W Meter Height(m) 3.5





# STICK TIME SERIES PLOT

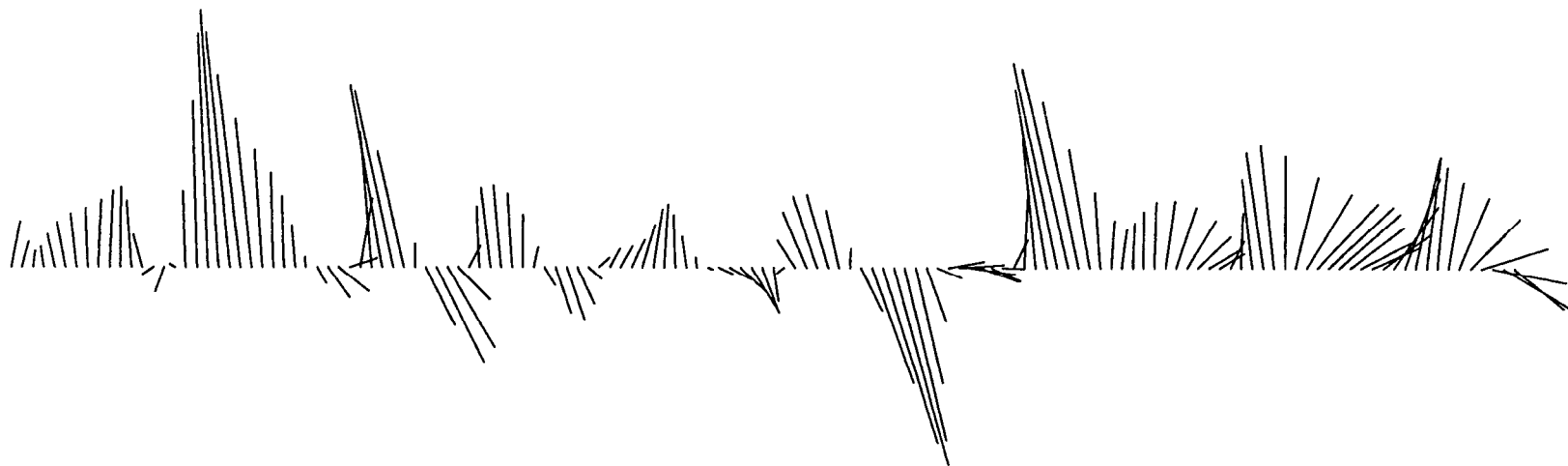
Meter no. 6443 Rig no. 00602 Depth of water(m) 18.0

Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00

Position 54 07.25N 03 26.86W Meter Height(m) 3.5

Filtered series

Scale 0.1 m/s



4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7

93

Dec

# STICK TIME SERIES PLOT

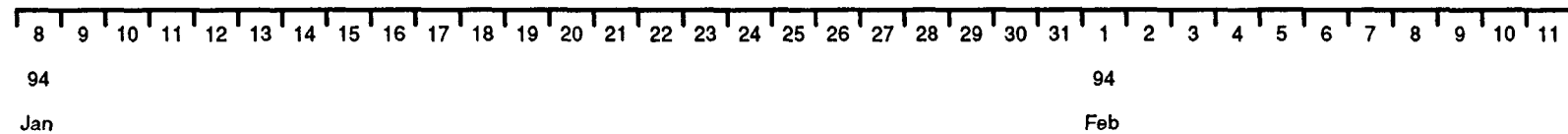
Meter no. 6443 Rig no. 00602 Depth of water(m) 18.0

Start/End 1993/12/01 AT 07:30:00 1994/02/07 AT 15:59:00

Position 54 07.25N 03 26.86W Meter Height(m) 3.5

Filtered series —

Scale 0.1 m/s



## Statistics for aa6443b.00602s

	Mean	Variance	Standard deviation
Eastings	0.0126	0.27692741E-01	0.16641136E+00
Northings	0.0315	0.28372128E-01	0.16844028E+00
Speed	0.2163	0.10442015E-01	0.10218617E+00
Vector mean speed	0.0339		
Vector Mean Direction	21.9		

### Maximum ten values

Eastings					Northings				
0.480	0.468	0.450	0.450	0.446	0.510	0.506	0.489	0.485	0.480
0.441	0.439	0.437	0.434	0.430	0.479	0.478	0.476	0.464	0.456

### Minimum ten values

Eastings					Northings				
-0.352	-0.352	-0.365	-0.368	-0.373	-0.427	-0.430	-0.432	-0.436	-0.436
-0.375	-0.401	-0.402	-0.403	-0.415	-0.438	-0.439	-0.439	-0.441	-0.485

### Maximum speeds

0.578	0.576	0.576	0.575	0.574	0.569	0.565	0.562	0.562	0.558
0.551	0.546	0.546	0.544	0.544	0.543	0.537	0.536	0.536	0.534
0.534	0.534	0.534	0.533	0.533	0.533	0.532	0.530	0.529	0.529
0.529	0.527	0.527	0.525	0.523	0.523	0.522	0.520	0.520	0.520
0.519	0.518	0.518	0.516	0.516	0.516	0.515	0.513	0.513	0.513
0.511	0.511	0.509	0.509	0.506	0.506	0.506	0.506	0.505	0.504
0.501	0.501	0.501	0.501	0.501	0.499	0.499	0.499	0.499	0.498
0.497	0.497	0.497	0.495	0.495	0.494	0.494	0.494	0.494	0.492
0.492	0.492	0.491	0.491	0.490	0.490	0.490	0.488	0.488	0.487
0.487	0.485	0.485	0.485	0.485	0.484	0.484	0.484	0.484	0.483

### Variance ellipse statistics

Maximum variance	0.4580E-01	Direction	-44.5
Minimum variance	0.1027E-01	Direction	45.5
Total variance	0.5606E-01	Ratio of variances	0.2241E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		13.6	
Average direction. maxdir +PI/2 to maxdir -PI/2		175.0	

# Filtered Statistics for aa6443b.00602sf

	Mean	Variance	Standard deviation
Eastings	0.0107	0.38142561E-03	0.19530119E-01
Northings	0.0356	0.31462179E-02	0.56091156E-01
Speed	0.0574	0.16045911E-02	0.40057350E-01
Vector mean speed	0.0372		
Vector Mean Direction	16.8		

## Maximum ten values

Eastings					Northings				
0.071	0.056	0.054	0.050	0.050	0.196	0.180	0.178	0.156	0.151
0.049	0.048	0.046	0.046	0.046	0.146	0.142	0.142	0.138	0.136

## Minimum ten values

Eastings					Northings				
-0.018	-0.019	-0.019	-0.021	-0.024	-0.040	-0.041	-0.045	-0.062	-0.073
-0.025	-0.028	-0.030	-0.034	-0.035	-0.089	-0.089	-0.132	-0.134	-0.151

## Maximum speeds

0.197	0.181	0.179	0.159	0.157	0.155	0.147	0.146	0.145	0.141
0.141	0.138	0.138	0.136	0.129	0.129	0.127	0.126	0.114	0.104
0.100	0.099	0.096	0.094	0.094	0.092	0.092	0.091	0.090	0.089
0.089	0.088	0.087	0.085	0.085	0.085	0.082	0.082	0.077	0.076
0.075	0.075	0.074	0.072	0.071	0.071	0.071	0.070	0.068	0.067
0.067	0.067	0.065	0.064	0.063	0.062	0.062	0.060	0.060	0.059
0.059	0.058	0.058	0.058	0.057	0.057	0.057	0.057	0.057	0.057
0.057	0.055	0.055	0.055	0.053	0.053	0.053	0.052	0.051	0.051
0.051	0.050	0.050	0.050	0.049	0.048	0.048	0.047	0.047	0.046
0.045	0.045	0.044	0.044	0.044	0.044	0.042	0.042	0.042	0.042

## Variance ellipse statistics

Maximum variance	0.3234E-02	Direction	-10.0
Minimum variance	0.2933E-03	Direction	80.0
Total variance	0.3528E-02	Ratio of variances	0.9069E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		20.6	
Average direction. maxdir +PI/2 to maxdir -PI/2		149.8	

**Rig information details for 00603**

Position Latitude	:	54 07.08N
Position Longitude	:	03 27.05W
Water depth	:	20.0 m
Deployed on cruise	:	P.MADOG
Recovered on cruise	:	P.MADOG
Site name identification	:	Y
Magnetic deviation	:	6.7 degrees west
Rig deployed on	:	07-FEB-94 19:20:00
Rig recovered on	:	03-MAY-94 15:18:00
Period of deployment	:	84.8 days
Comments	:	Data is from 2nd attempt to deploy rig. 1st attempt fouled in propellor damaging bottom meter RCM0568. Hence only top meter RCM7570 finally deployed. Long deployment due to bad weather, resulting in data termination before rig recovery.

**Meter information details for 7570**

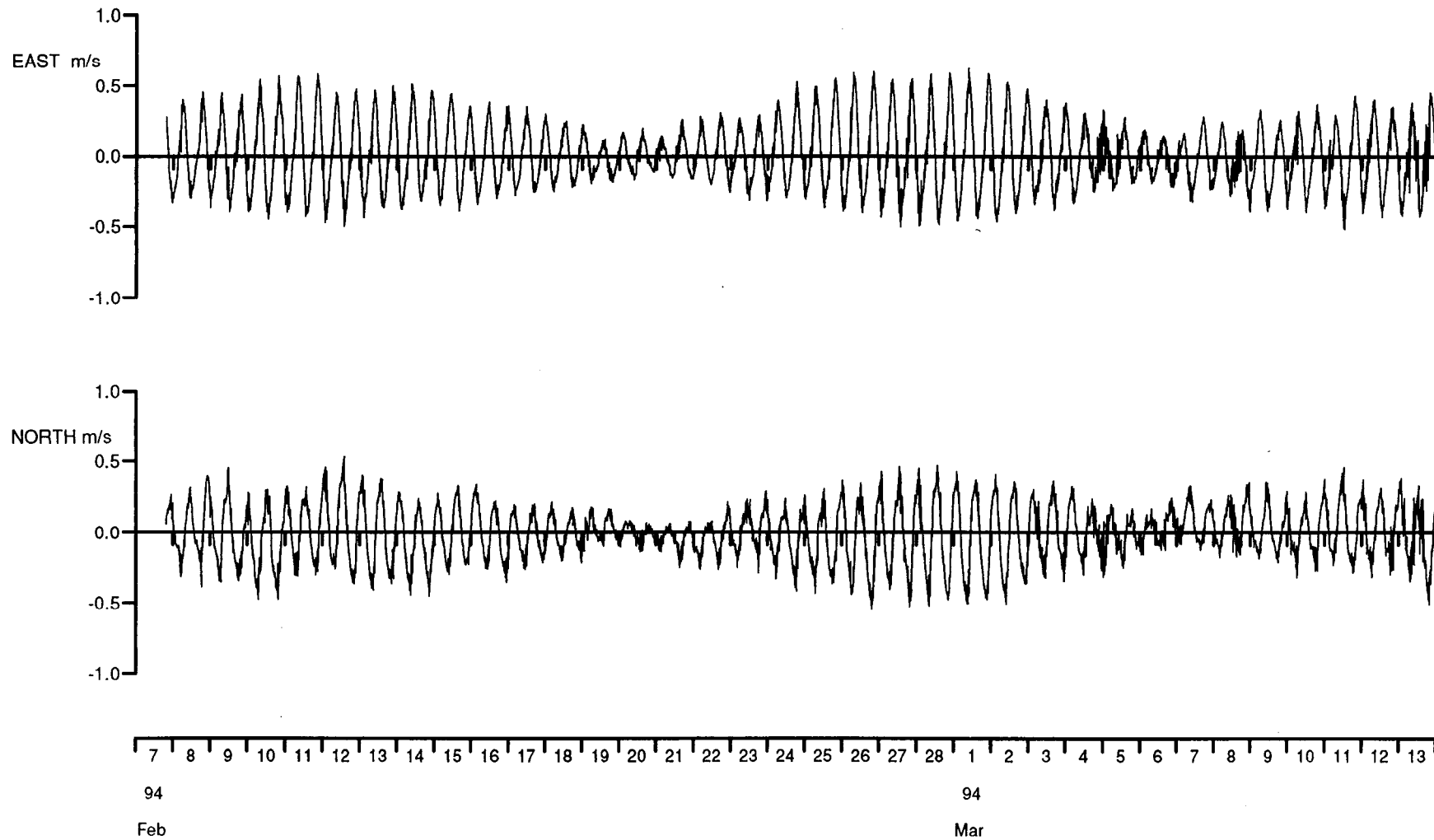
Rig No	:	00603
Meter No	:	7570
Recording interval	:	600.0 seconds
Meter height from bottom	:	10.5 m
Position of meter on rig	:	T
Meter type	:	AS
Meter started	:	07-FEB-94 16:39:00
Time of last valid scan	:	23-APR-94 23:49:00
Period of good data	:	75.2 days      short record
Total number of scans	:	10827
Timing error	:	None
Comments	:	Newly overhauled as RCM 7/8, with new calibrations. Atmospheric pressure removed at data capture.

# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0

Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00

Position 54 07.08N 03 27.05W Meter Height(m) 10.5

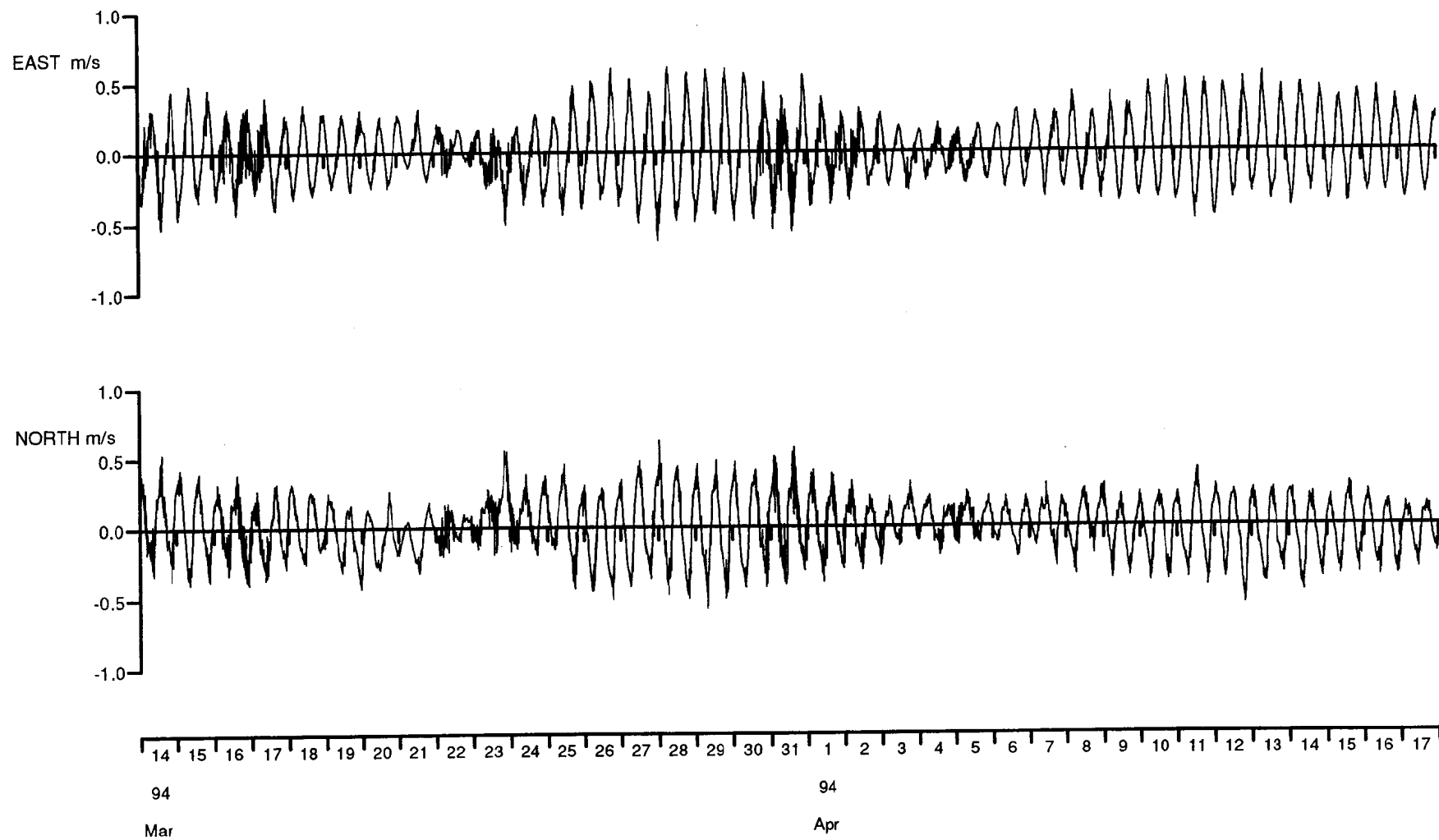


# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0

Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00

Position 54 07.08N 03 27.05W Meter Height(m) 10.5



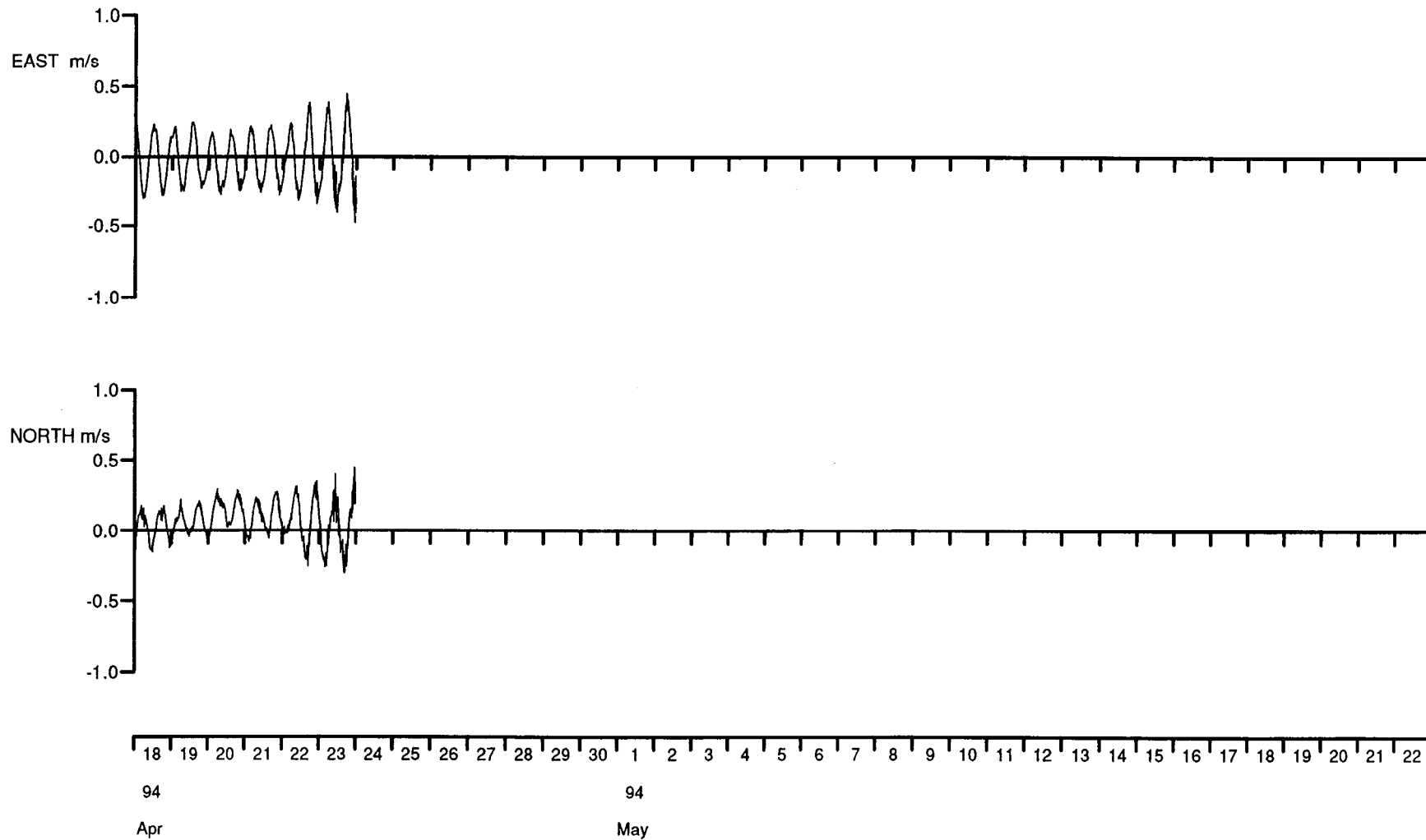


# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0

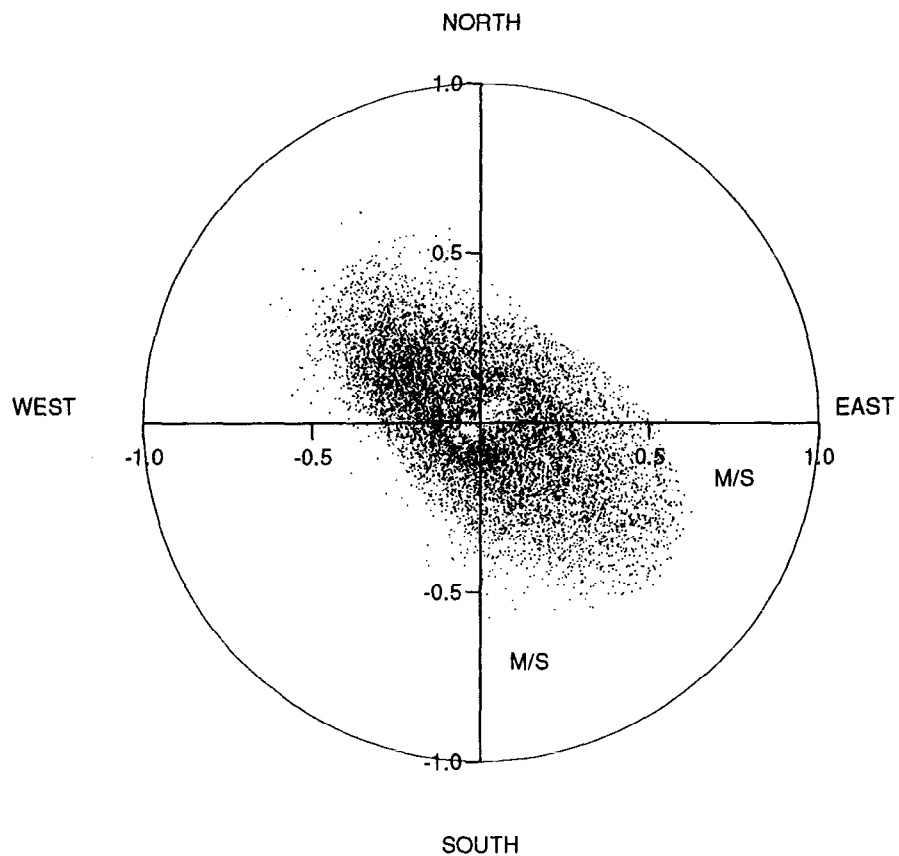
Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00

Position 54 07.08N 03 27.05W Meter Height(m) 10.5



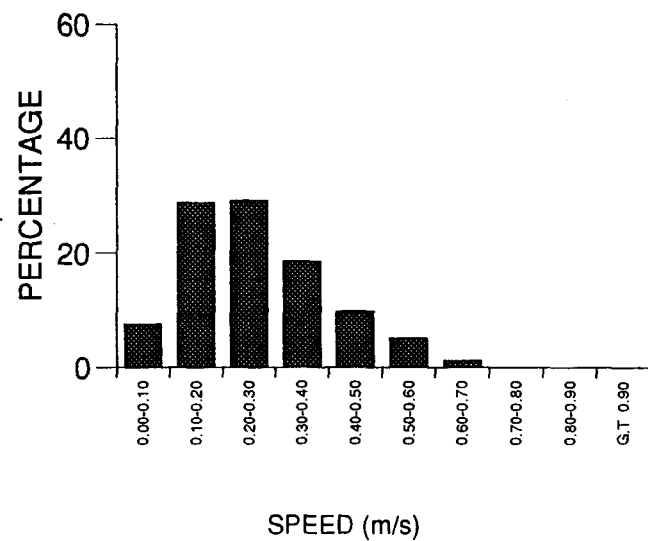
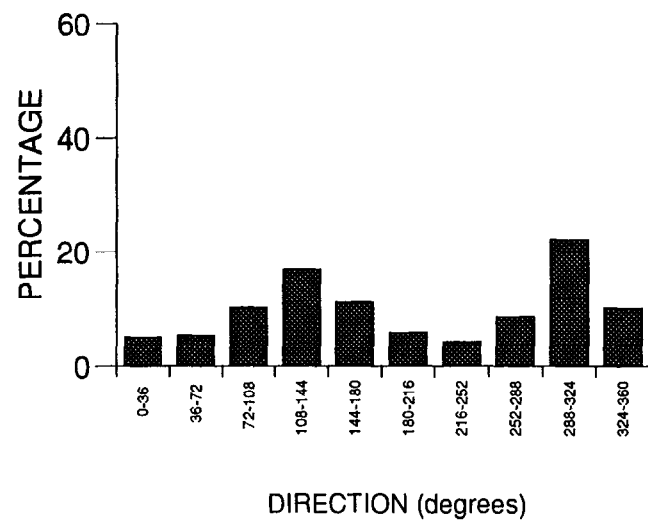
# SCATTER PLOT

Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0  
Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00  
Position 54 07.08N 03 27.05W Meter Height(m) 10.5



# HISTOGRAMS FOR SPEEDS AND DIRECTIONS

Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0  
Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00  
Position 54 07.08N 03 27.05W Meter Height(m) 10.5

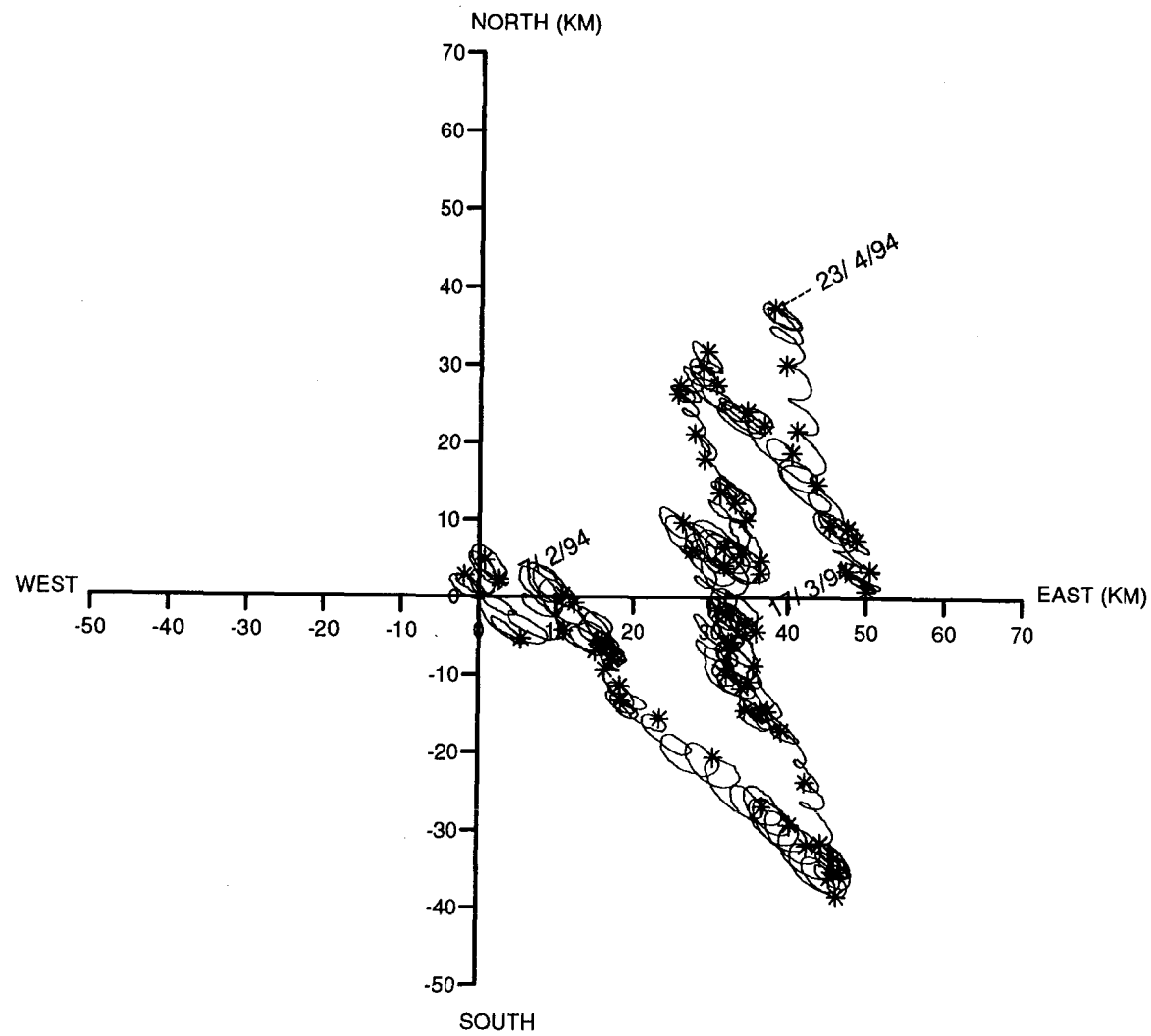


# VECTOR PLOT

Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0

Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00

Position 54 07.08N 03 27.05W Meter Height(m) 10.5

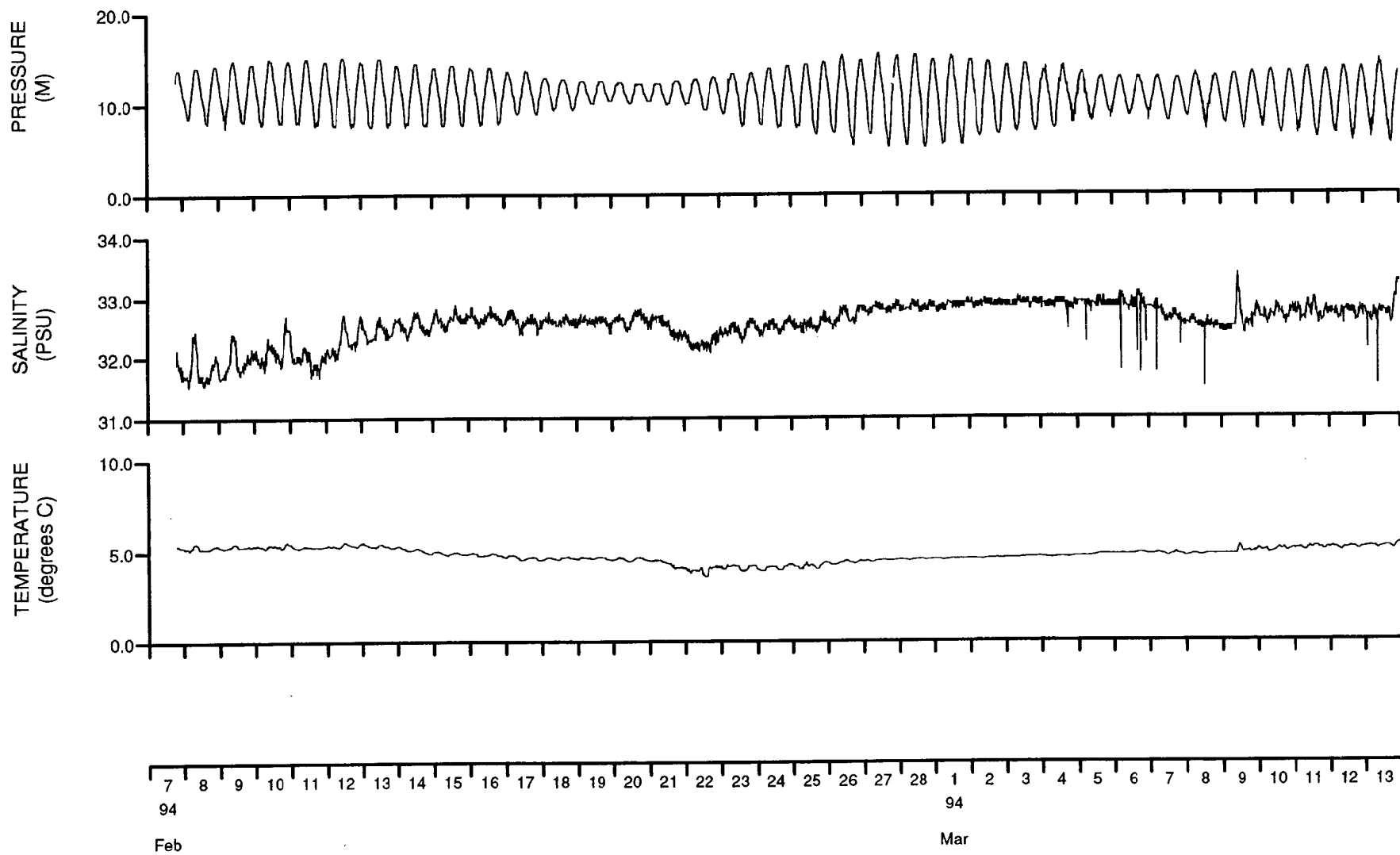


# TEMPERATURE, SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0

Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00

Position 54 07.08N 03 27.05W Meter Height(m) 10.5

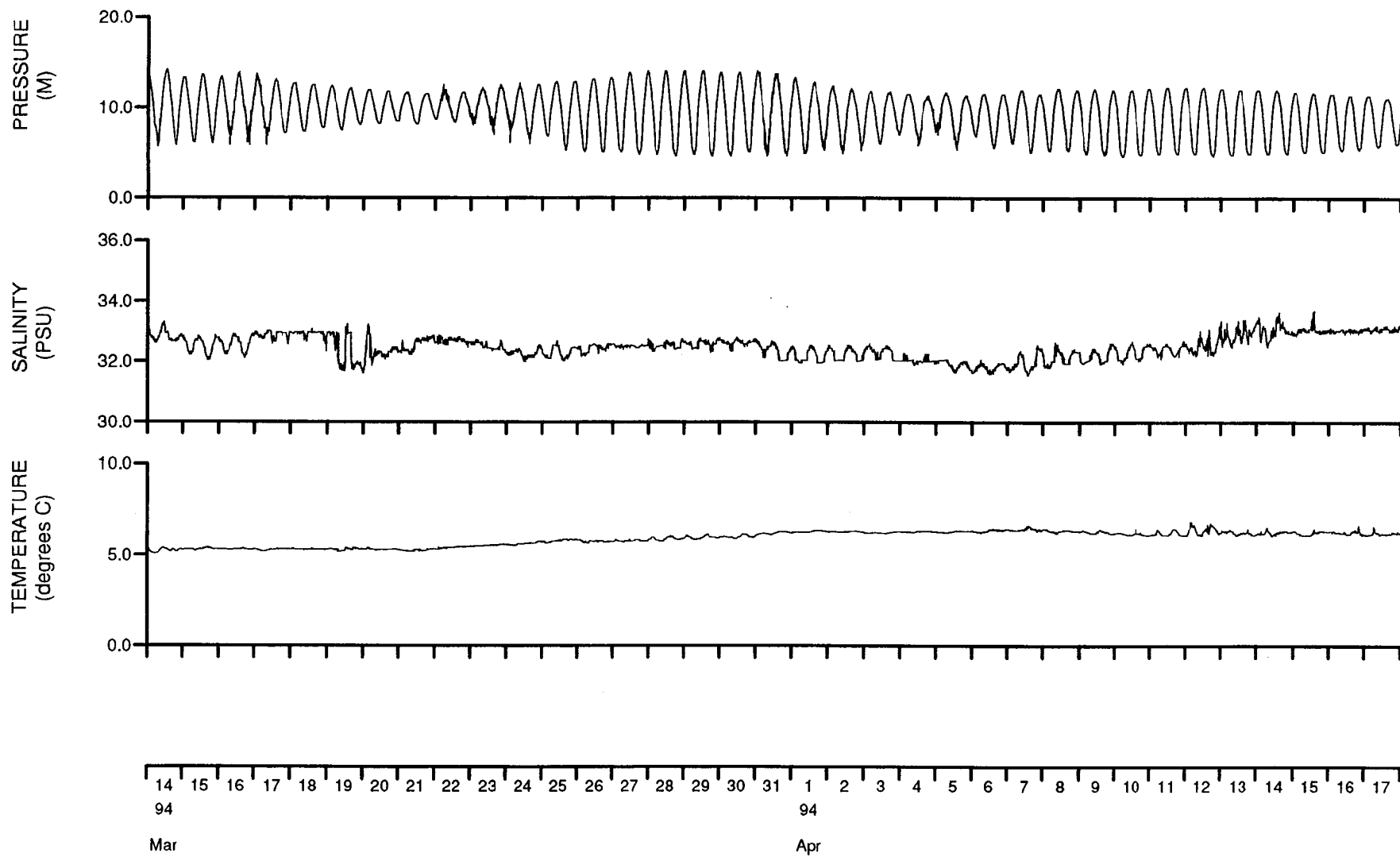


# TEMPERATURE, SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0

Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00

Position 54 07.08N 03 27.05W Meter Height(m) 10.5

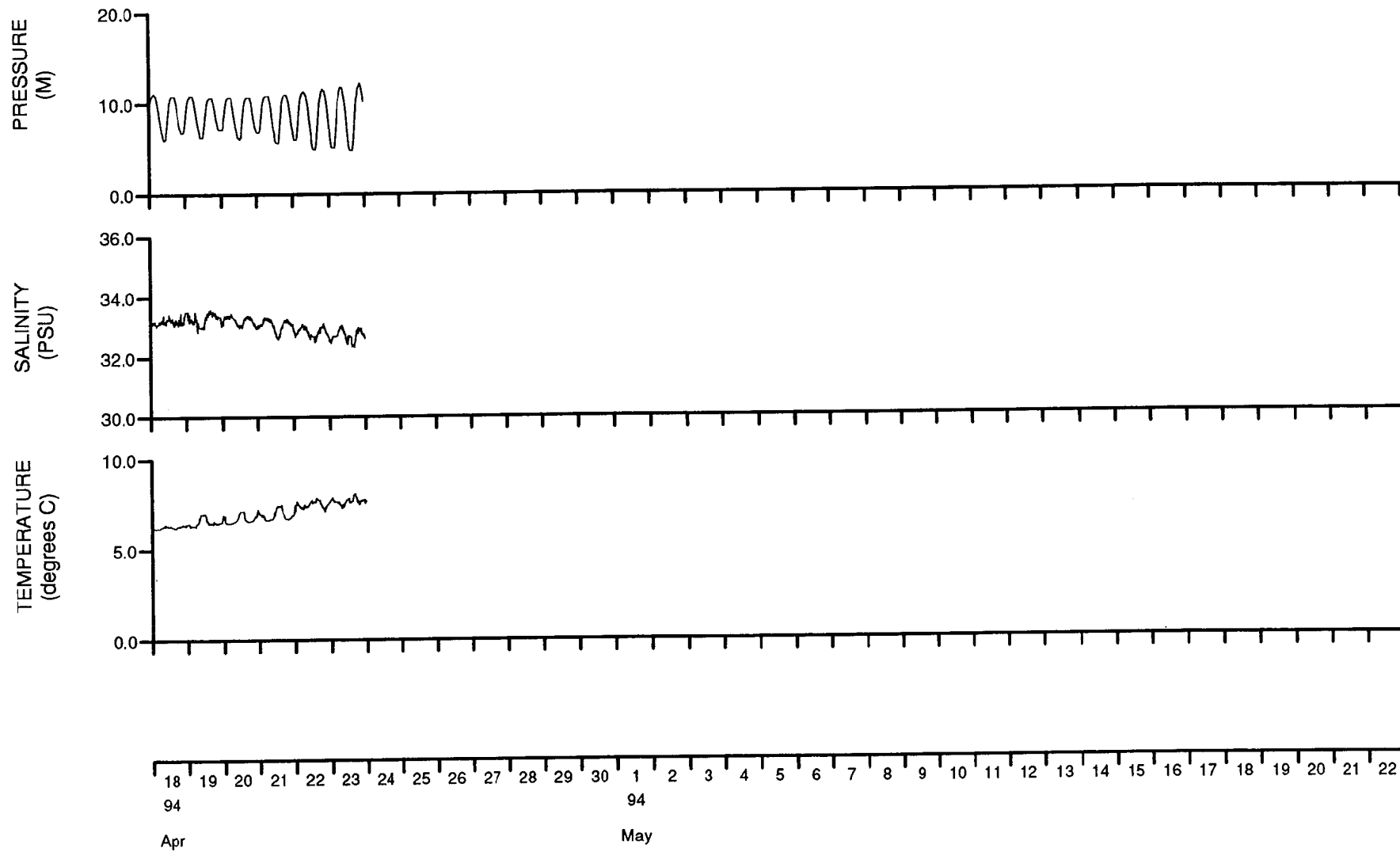


# TEMPERATURE,SALINITY AND PRESSURE TIME SERIES PLOTS

Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0

Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00

Position 54 07.08N 03 27.05W Meter Height(m) 10.5



# STICK TIME SERIES PLOT

Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0

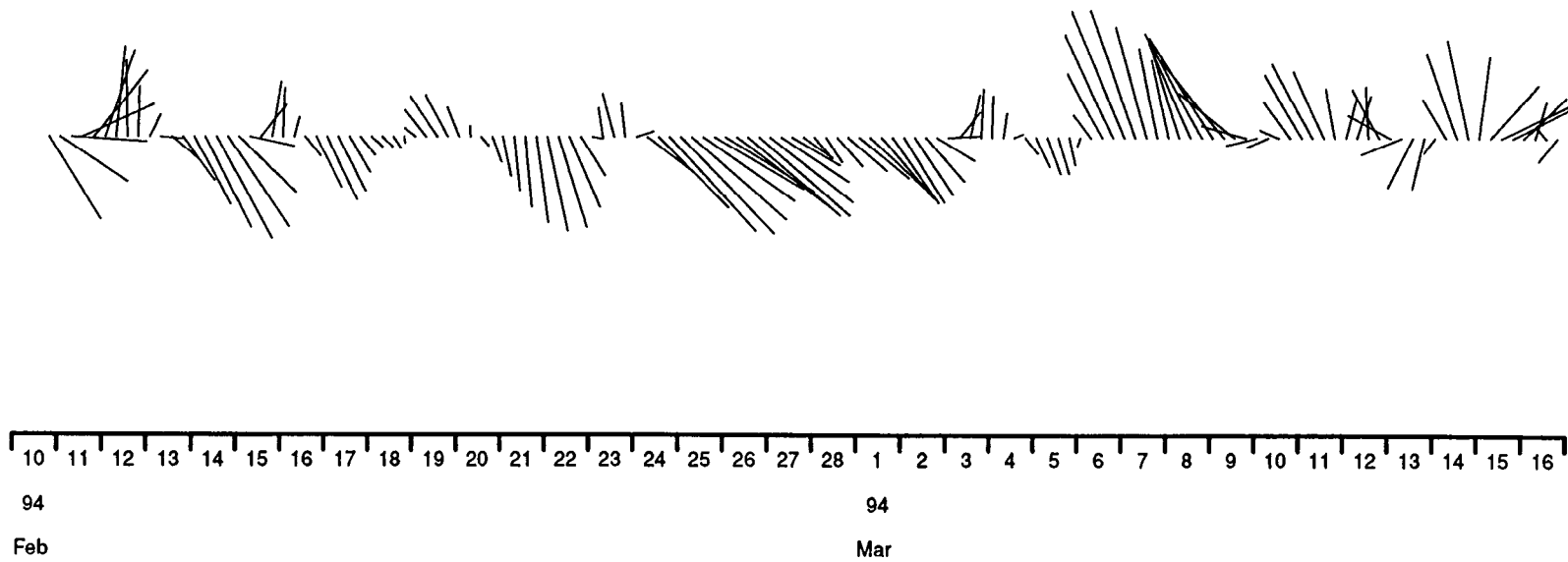
Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00

Position 54 07.08N 03 27.05W Meter Height(m) 10.5

Filtered series

Scale 0.1 m/s

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# STICK TIME SERIES PLOT

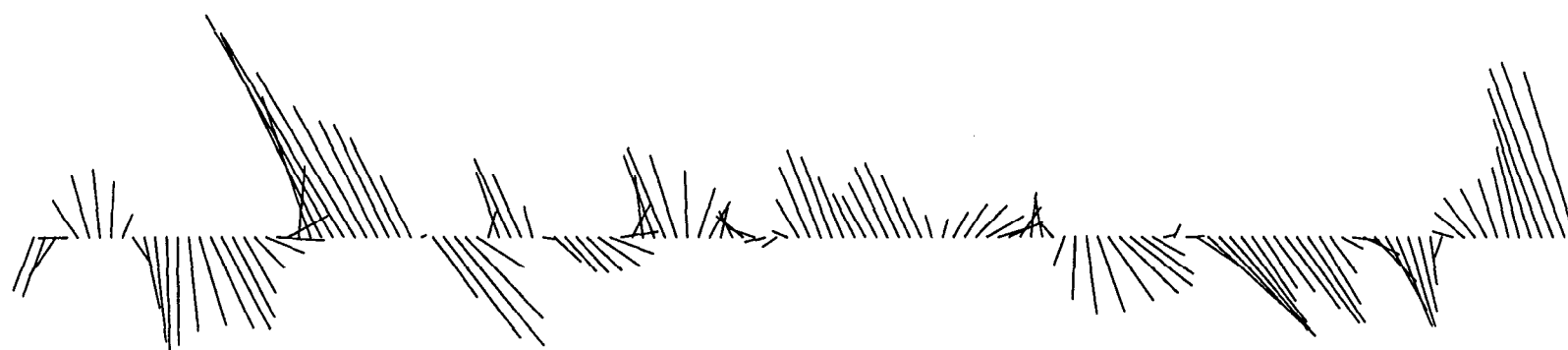
Meter no. 7570 Rig no. 00603 Depth of water(m) 20.0

Start/End 1994/02/07 AT 19:20:00 1994/05/03 AT 15:18:00

Position 54 07.08N 03 27.05W Meter Height(m) 10.5

Filtered series —

Scale 0.1 m/s



17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

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94

Mar

Apr



# Statistics for as7570t.00603s

	Mean	Variance	Standard deviation
Eastings	0.0060	0.50502650E-01	0.22472793E+00
Northings	0.0059	0.36252618E-01	0.19040121E+00
Speed	0.2641	0.17063942E-01	0.13062902E+00
Vector mean speed	0.0084		
Vector Mean Direction	45.5		

## Maximum ten values

Eastings					Northings				
0.625	0.603	0.601	0.596	0.593	0.618	0.585	0.570	0.551	0.549
0.592	0.591	0.586	0.586	0.585	0.548	0.544	0.537	0.537	0.532

## Minimum ten values

Eastings					Northings				
-0.521	-0.527	-0.532	-0.534	-0.539	-0.509	-0.509	-0.520	-0.524	-0.526
-0.546	-0.563	-0.567	-0.594	-0.626	-0.543	-0.546	-0.550	-0.551	-0.574

## Maximum speeds

0.717	0.714	0.714	0.700	0.697	0.697	0.697	0.694	0.688	0.685
0.682	0.679	0.679	0.679	0.679	0.676	0.676	0.674	0.674	0.671
0.671	0.668	0.668	0.665	0.665	0.665	0.665	0.662	0.662	0.662
0.659	0.659	0.659	0.659	0.656	0.656	0.656	0.653	0.650	0.650
0.647	0.645	0.645	0.645	0.642	0.642	0.642	0.642	0.642	0.642
0.642	0.642	0.639	0.639	0.639	0.639	0.639	0.639	0.639	0.639
0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.636	0.633	0.633
0.633	0.633	0.633	0.633	0.630	0.630	0.630	0.630	0.627	0.624
0.624	0.624	0.624	0.624	0.621	0.621	0.621	0.621	0.621	0.618
0.618	0.618	0.618	0.615	0.615	0.615	0.615	0.615	0.615	0.615

## Variance ellipse statistics

Maximum variance	0.7011E-01	Direction	-52.7
Minimum variance	0.1665E-01	Direction	37.3
Total variance	0.8675E-01	Ratio of variances	0.2374E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		12.0	
Average direction. maxdir +PI/2 to maxdir -PI/2		180.4	

# Filtered Statistics for as7570t.00603sf

	Mean	Variance	Standard deviation
Eastings	0.0068	0.87137998E-03	0.29519146E-01
Northings	0.0037	0.24046355E-02	0.49037080E-01
Speed	0.0492	0.90995722E-03	0.30165499E-01
Vector mean speed	0.0077		
Vector Mean Direction	61.2		

## Maximum ten values

Eastings					Northings				
0.070	0.070	0.069	0.069	0.068	0.168	0.154	0.150	0.131	0.127
0.068	0.067	0.067	0.067	0.066	0.124	0.124	0.111	0.105	0.098

## Minimum ten values

Eastings					Northings				
-0.043	-0.046	-0.047	-0.048	-0.048	-0.070	-0.071	-0.072	-0.074	-0.075
-0.054	-0.073	-0.075	-0.092	-0.095	-0.075	-0.078	-0.080	-0.080	-0.086

## Maximum speeds

0.193	0.179	0.168	0.144	0.139	0.135	0.130	0.118	0.112	0.111
0.105	0.102	0.101	0.100	0.097	0.097	0.096	0.095	0.095	0.094
0.094	0.093	0.091	0.090	0.089	0.089	0.086	0.086	0.086	0.085
0.084	0.083	0.083	0.083	0.081	0.080	0.080	0.079	0.079	0.078
0.078	0.078	0.077	0.077	0.076	0.076	0.075	0.075	0.075	0.074
0.074	0.073	0.073	0.072	0.071	0.071	0.070	0.070	0.070	0.070
0.068	0.068	0.068	0.067	0.067	0.067	0.066	0.066	0.065	0.065
0.065	0.065	0.064	0.063	0.063	0.062	0.061	0.061	0.061	0.060
0.060	0.060	0.060	0.060	0.059	0.059	0.059	0.059	0.058	0.058
0.058	0.058	0.058	0.058	0.058	0.058	0.057	0.057	0.056	0.056

## Variance ellipse statistics

Maximum variance	0.2981E-02	Direction	-27.6
Minimum variance	0.2954E-03	Direction	62.4
Total variance	0.3276E-02	Ratio of variances	0.9911E-01
Average direction. maxdir -PI/2 to maxdir +PI/2		15.0	
Average direction. maxdir +PI/2 to maxdir -PI/2		168.4	

**Rig information details for 00604**

Position Latitude	:	54 07.12N
Position Longitude	:	03 25.79W
Water depth	:	20.0 m
Deployed on cruise	:	P.MADOG
Recovered on cruise	:	P.MADOG
Site name identification	:	Y
Magnetic deviation	:	6.7 degrees west
Rig deployed on	:	07-FEB-94 20:45:00
Rig recovered on	:	03-MAY-94 15:45:00
Period of deployment	:	40.8 days
Comments	:	Long deployment due to bad weather, resulting in data termination before rig recovery.

**Meter information details for 0010**

Rig No	: 00604
Meter No	: 0010
Recording interval	: 600.0 seconds
Meter height from bottom	: 0.5 m
Meter type	: DP
Meter started	: 07-FEB-94 13:19:18
Meter stopped	: 13-APR-94 08:19:23
Period switched on	: 64.8 days
Period of good data	: 40.8 days
Total number of scans	: 5874
Timing error	: 5 seconds slow
Comments	: Beams apparently set up as for old ADCPs vis:- Beam 1 aligned with zero of compass and Beam 2 to right of Beam 1. Data 20/3-13/4/94 suspect when plotted, and therefore removed. All bins included in final dataset, but bins 1 and 7-12 should be used with care.

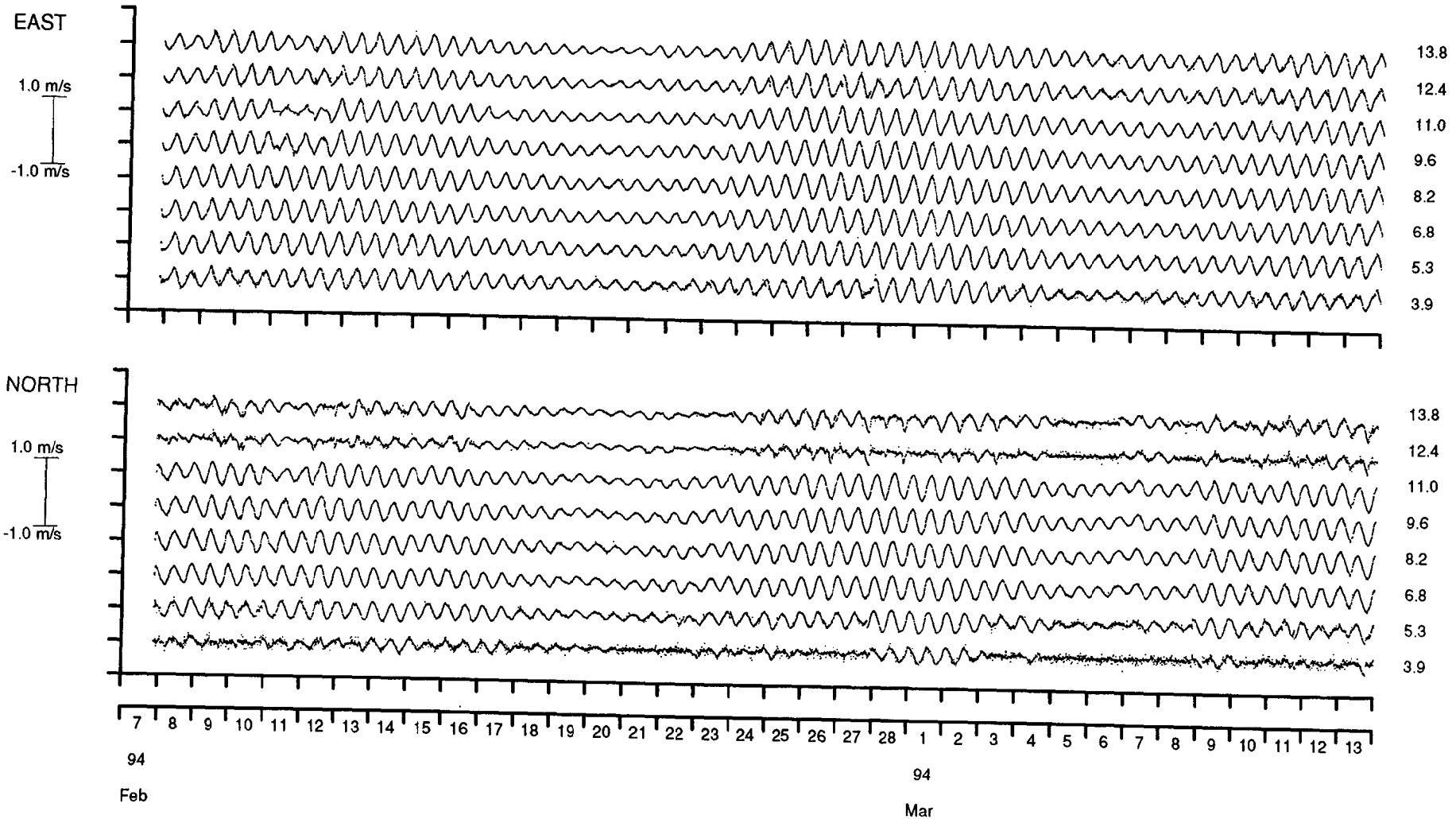
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)



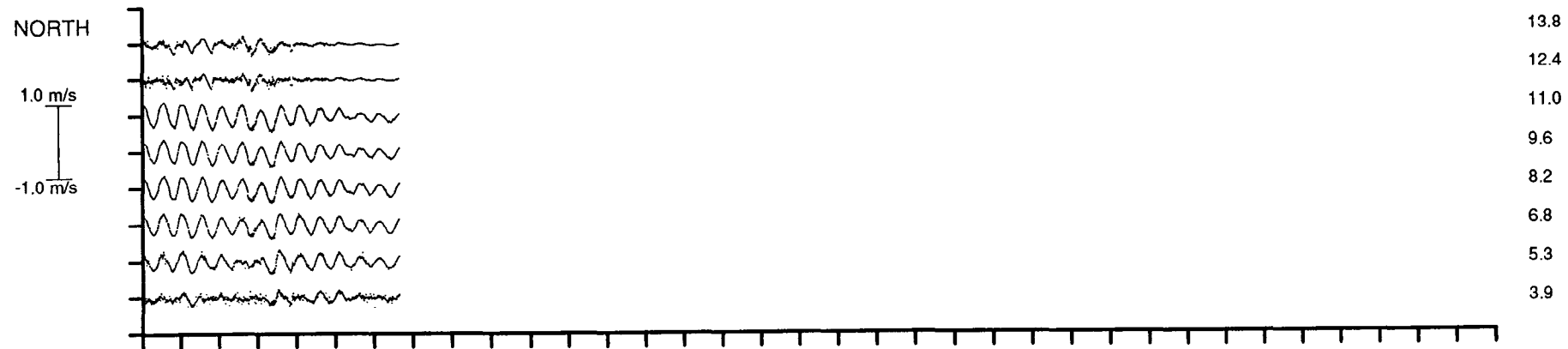
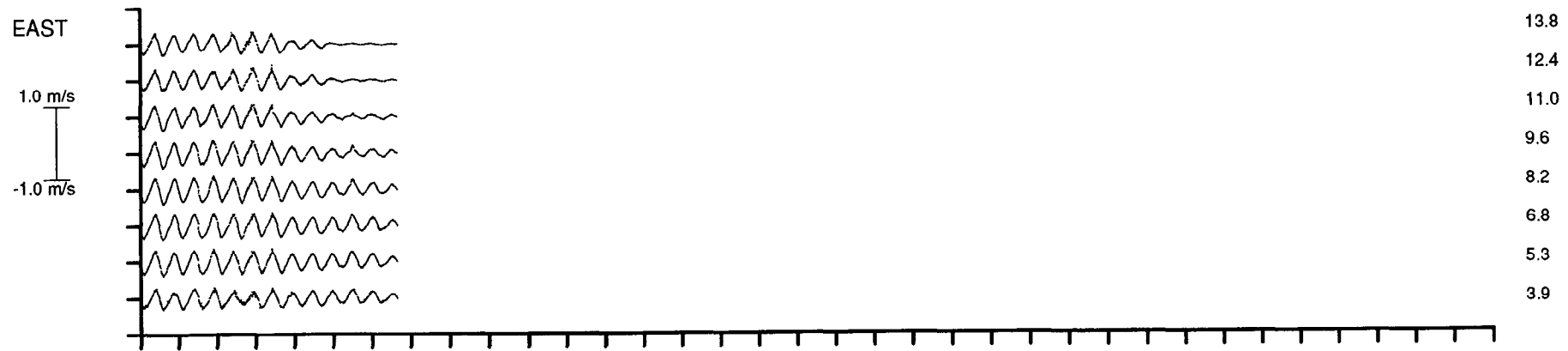
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)



14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

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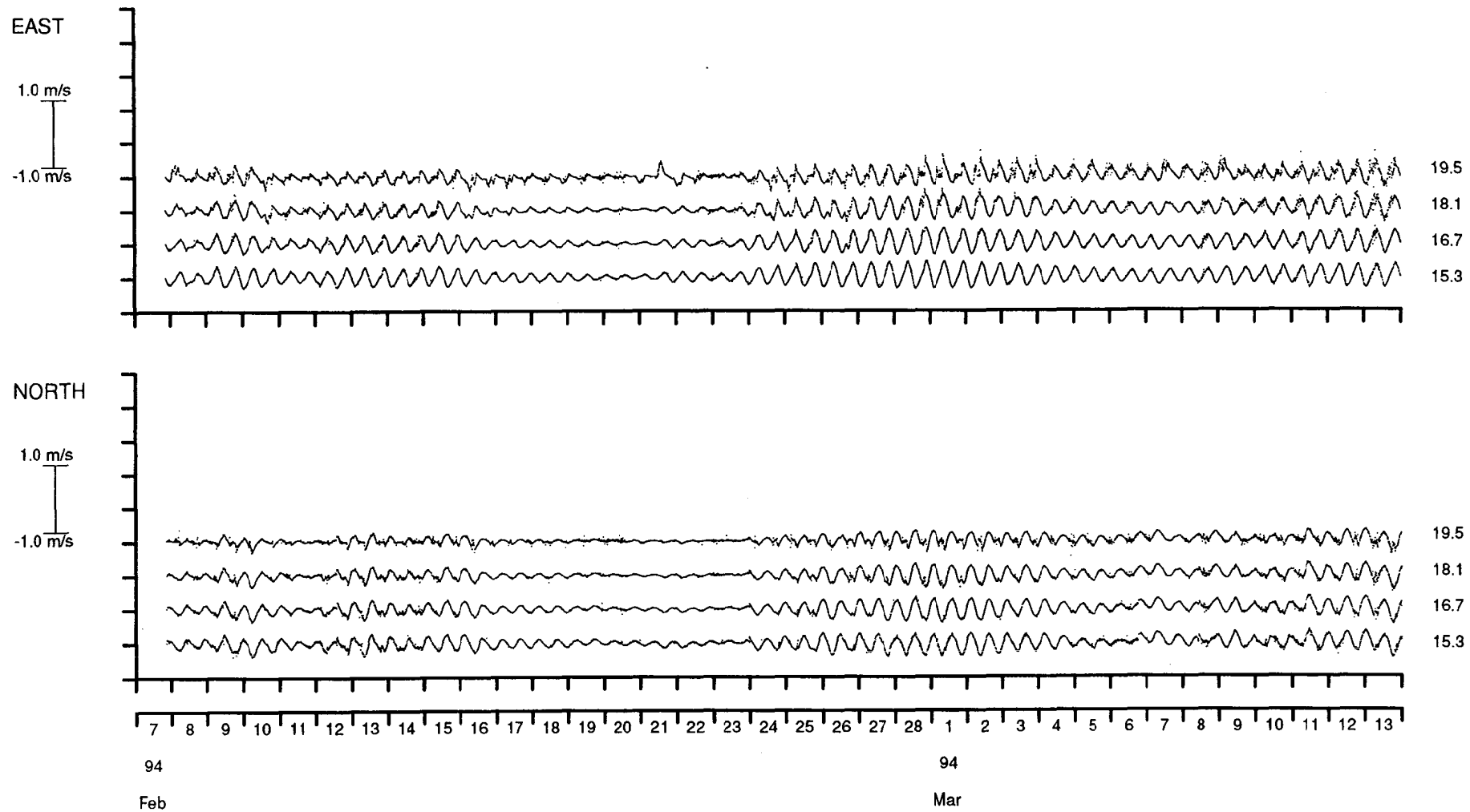
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)



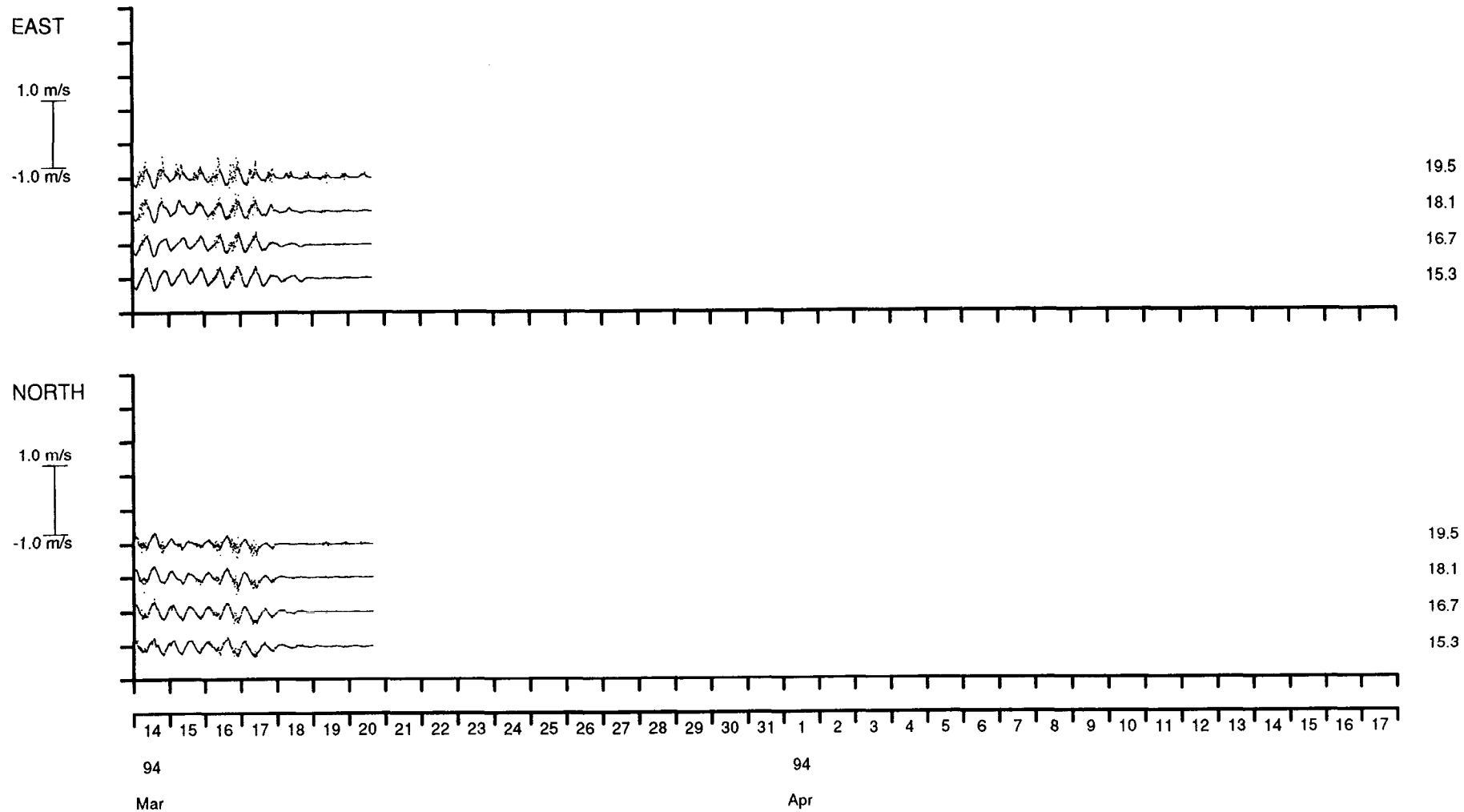
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht

Bin Ht (m)



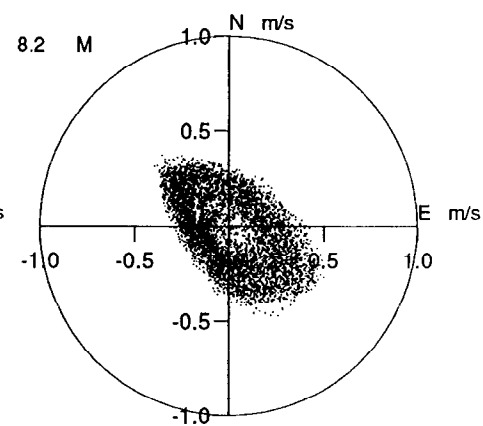
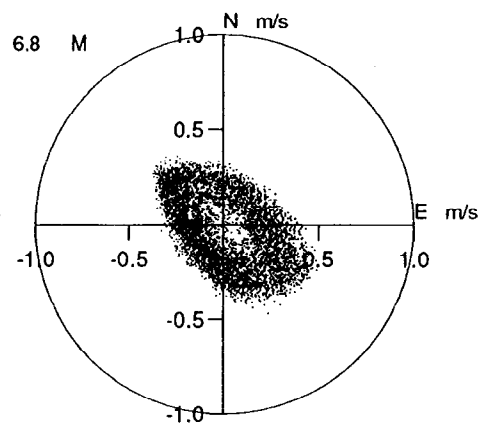
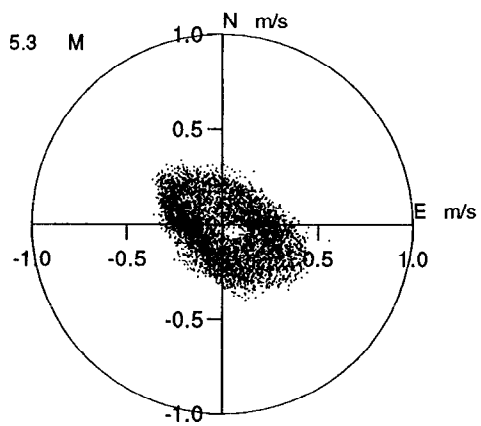
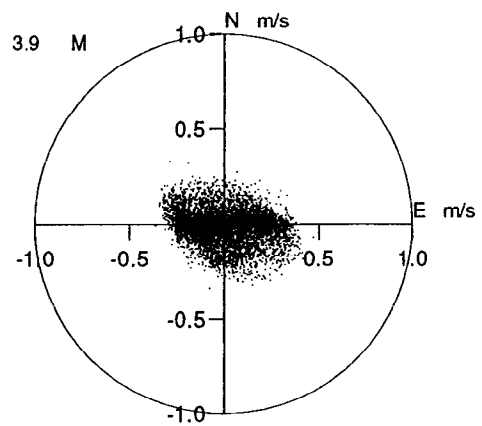
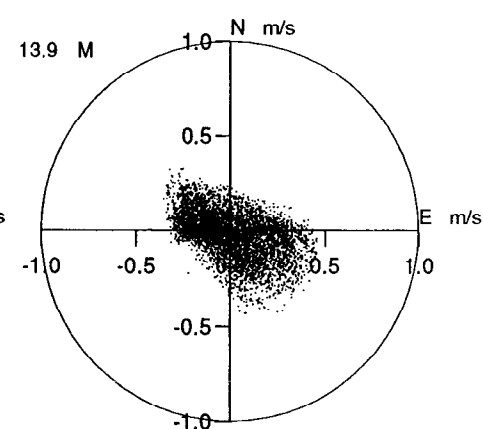
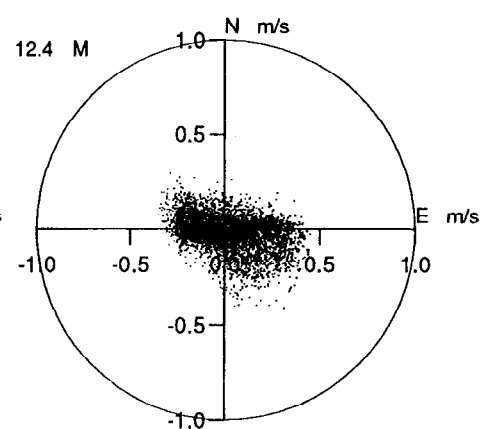
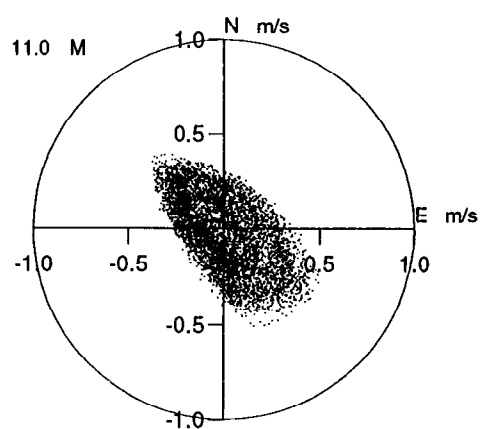
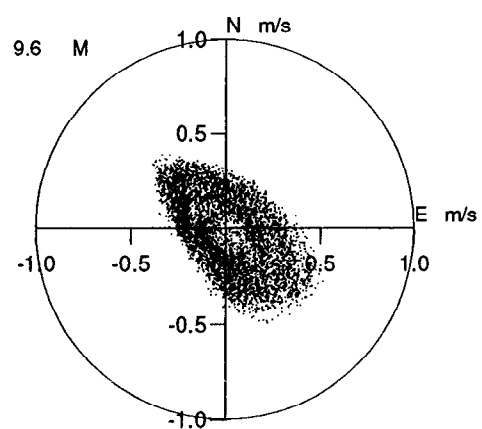


# SCATTER PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht

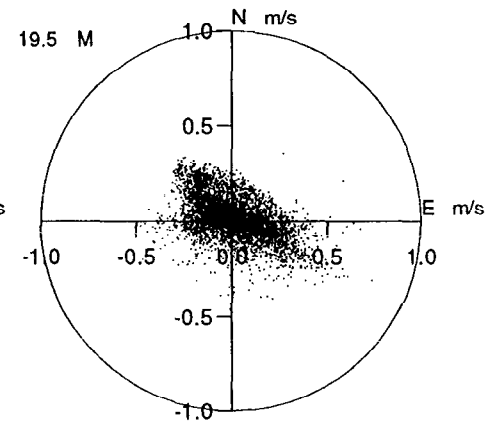
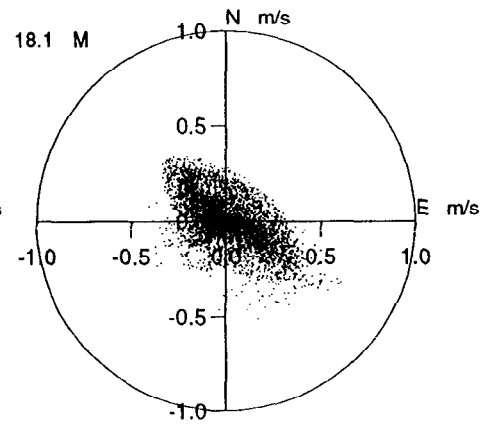
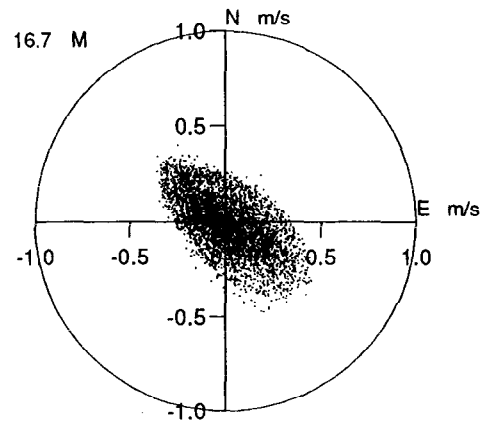
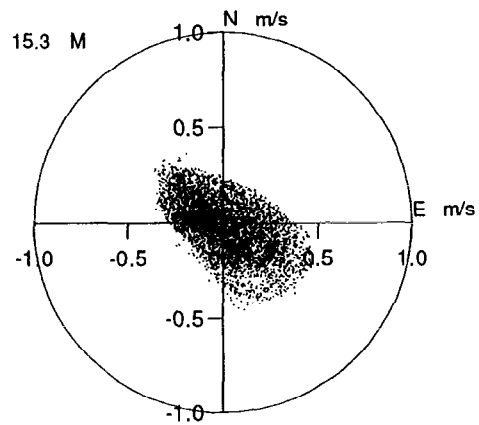


# SCATTER PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht



# STICK TIME SERIES PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

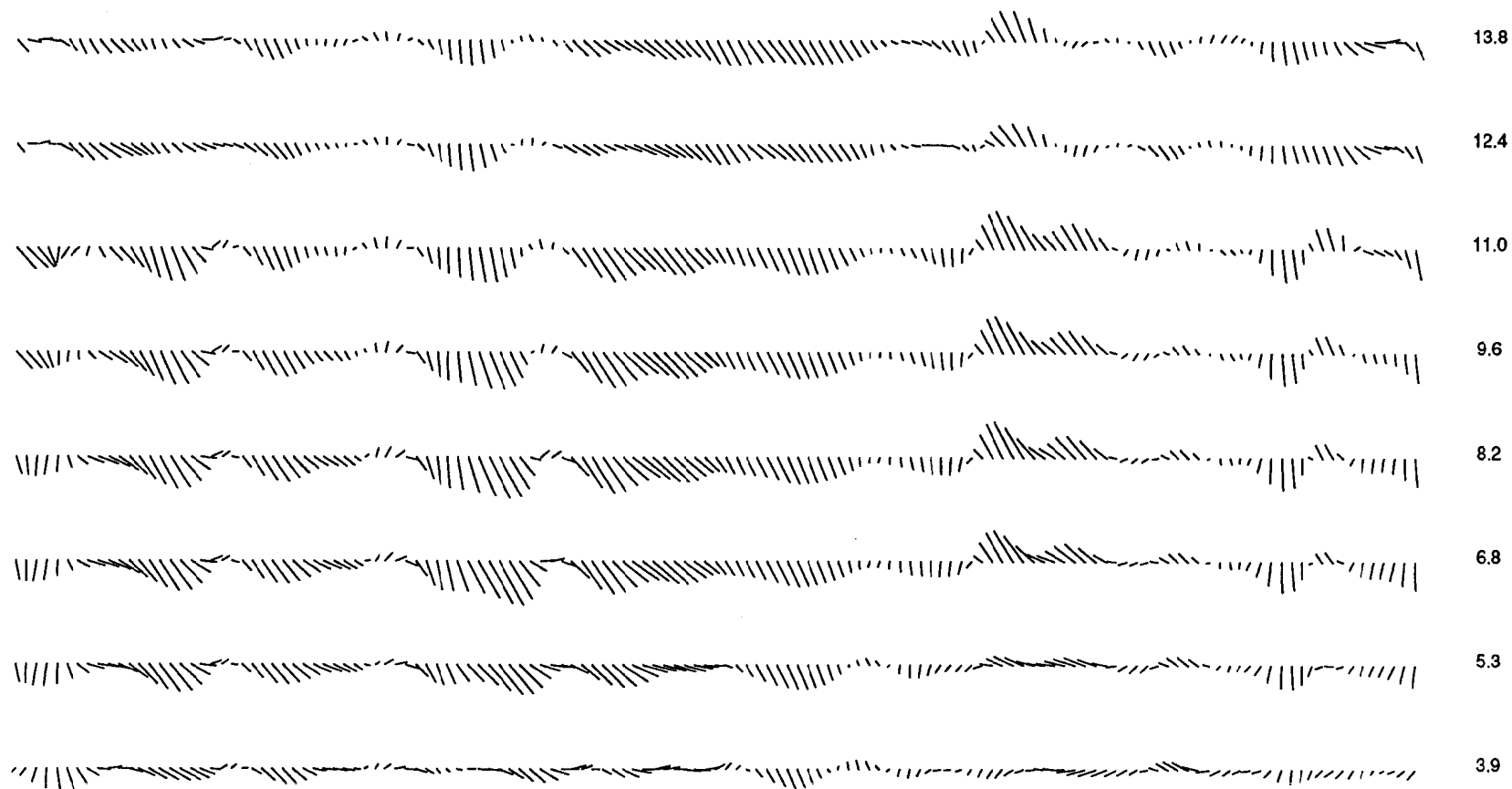
Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

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Bin Ht (m)



10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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# STICK TIME SERIES PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

Bin Ht (m)



17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

94

94

Mar

Apr

# STICK TIME SERIES PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

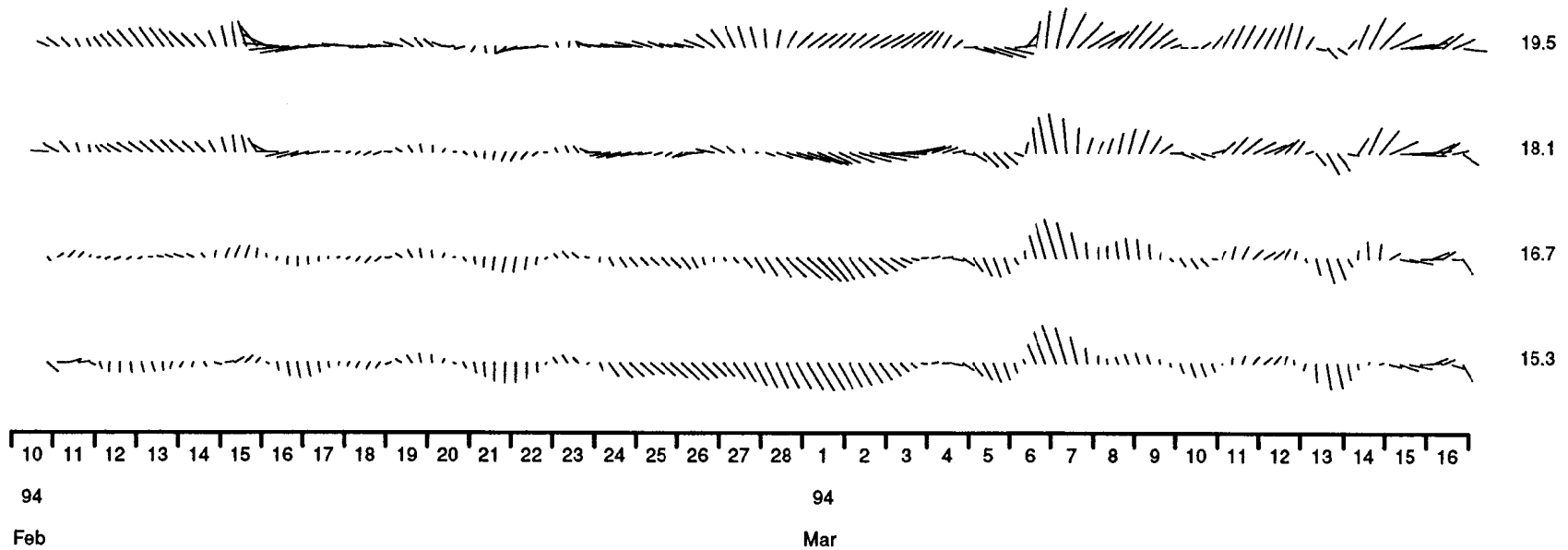
Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

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Bin Ht (m)



# STICK TIME SERIES PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

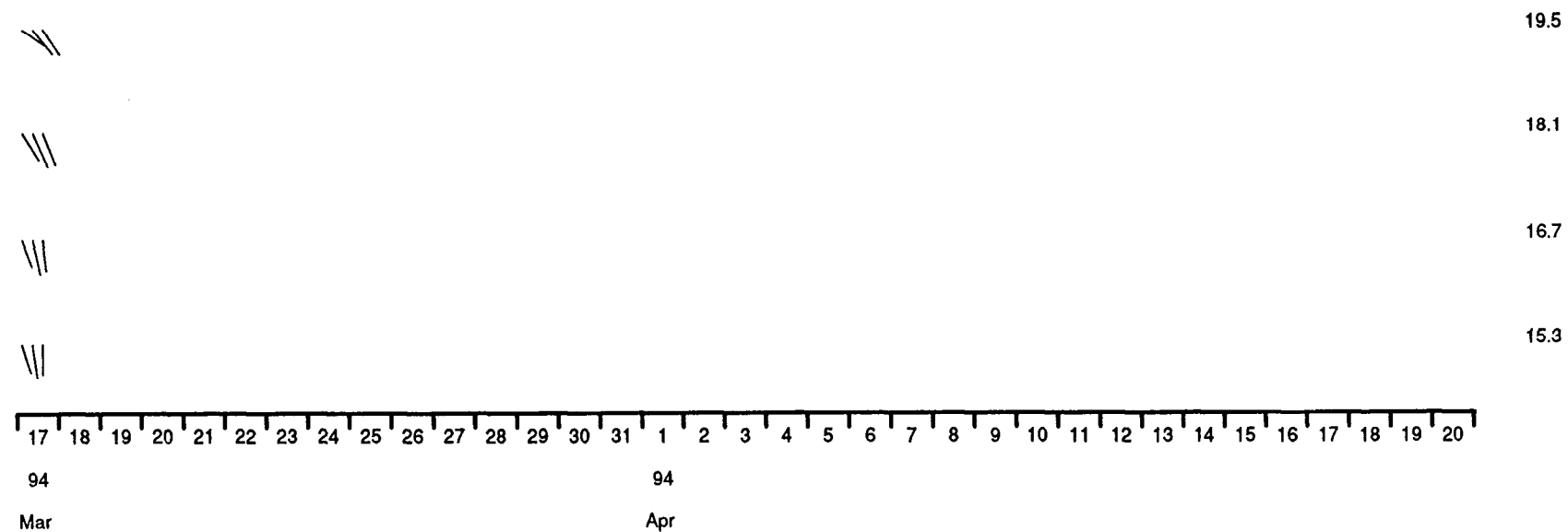
Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht

Filtered series

Scale 0.1 m/s

—

Bin Ht (m)



## Statistics for dp0010.00604

### Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.012	147.9	0.0261	-81.7	0.0069	8.3
2	5.3	0.025	154.0	0.0426	-60.6	0.0155	29.4
3	6.8	0.030	156.3	0.0553	-49.4	0.0184	40.6
4	8.2	0.028	157.0	0.0591	-47.2	0.0178	42.8
5	9.6	0.025	158.6	0.0584	-44.8	0.0159	45.2
6	11.0	0.023	162.2	0.0536	-41.8	0.0132	48.2
7	12.4	0.023	138.7	0.0278	-76.8	0.0060	13.2
8	13.8	0.023	146.3	0.0334	-66.2	0.0083	23.8
9	15.3	0.017	145.7	0.0365	-55.2	0.0090	34.8
10	16.7	0.010	124.4	0.0347	-50.7	0.0078	39.3
11	18.1	0.011	65.0	0.0313	-54.8	0.0070	35.2
12	19.5	0.020	16.3	0.0242	-63.8	0.0061	26.2

## Statistics for dp0010.00604

### Filtered Statistics

For all good data bins

ADCP Bin Number	ADCP Bin Height	Vector Mean Speed	Vector Mean Direction	Maximum Variance	Direction of Maximum Variance	Minimum Variance	Direction of Minimum Variance
1	3.9	0.012	145.7	0.0006	-80.7	0.0002	9.3
2	5.3	0.025	150.7	0.0011	-58.0	0.0003	32.0
3	6.8	0.030	153.3	0.0017	-38.4	0.0003	51.6
4	8.2	0.029	153.7	0.0018	-33.4	0.0003	56.6
5	9.6	0.026	154.1	0.0018	-29.5	0.0002	60.5
6	11.0	0.024	156.4	0.0017	-25.5	0.0002	64.5
7	12.4	0.025	135.6	0.0006	-38.0	0.0002	52.0
8	13.8	0.025	142.5	0.0008	-26.7	0.0002	63.3
9	15.3	0.018	141.1	0.0010	-21.0	0.0002	69.0
10	16.7	0.010	117.6	0.0010	-23.0	0.0002	67.0
11	18.1	0.011	55.7	0.0014	-75.1	0.0007	14.9
12	19.5	0.021	5.3	0.0019	78.6	0.0006	168.6



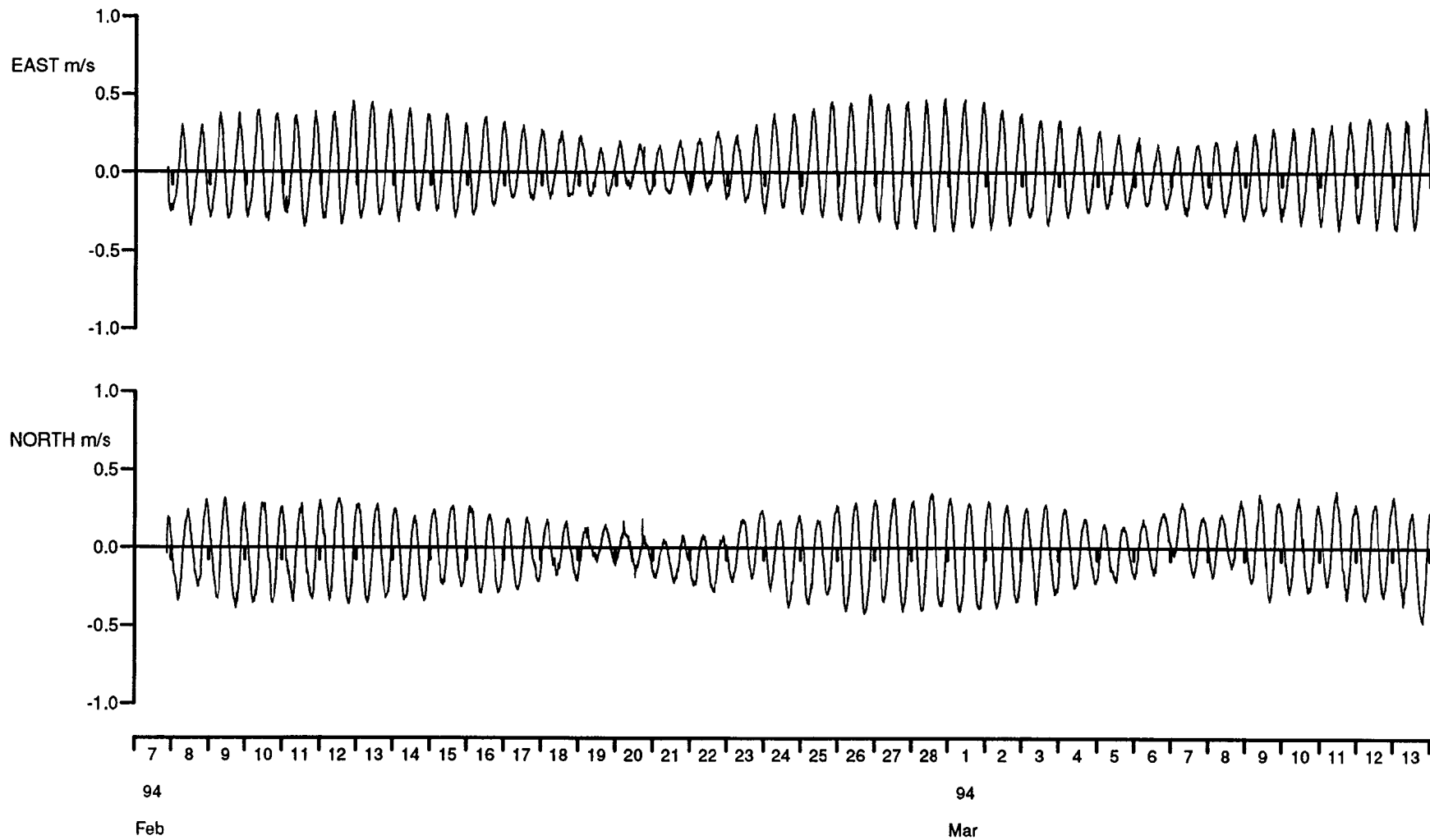
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht 8.2 Bin Ht (m)

Bin closest to depth average



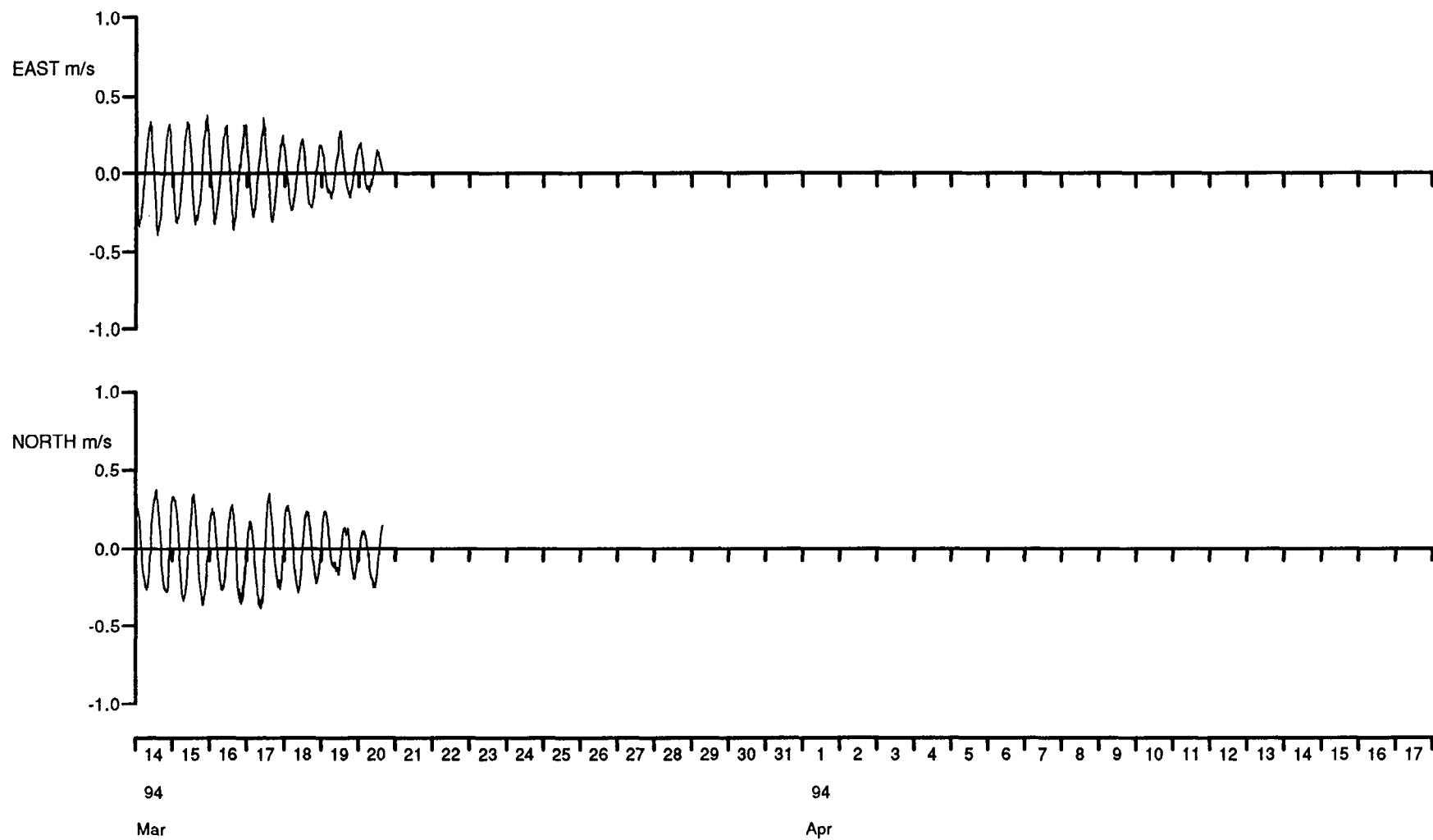
# VELOCITY COMPONENT TIME SERIES PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht 8.2 Bin Ht (m)

Bin closest to depth average



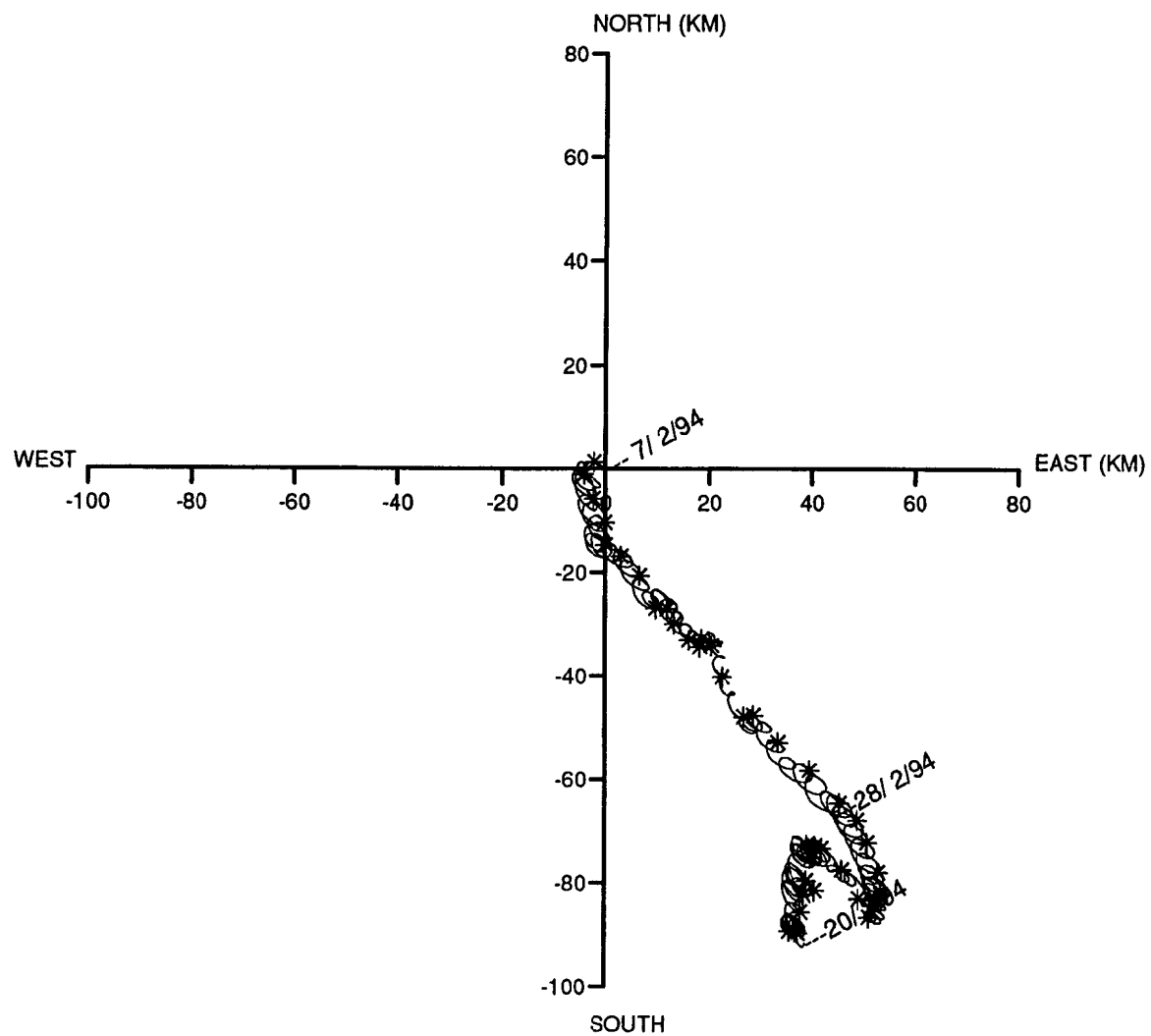
# VECTOR PLOT

Meter no. 0010 Rig no. 00604 Depth of water(m) 20.0

Start/End 1994/02/07 AT 20:45:00 1994/03/20 AT 15:45:00

Position 54 07.12N 03 25.79W 3.91 Base Ht 1.42 Gap Ht 8.2 Bin Ht (m)

Bin closest to depth average



## Statistics for dp0010.00604s4

Doppler bin number 4

	Mean	Variance	Standard deviation
Eastings	0.0110	0.40061500E-01	0.20015369E+00
Northings	-0.0259	0.36887743E-01	0.19206183E+00
Speed	0.2601	0.10054000E-01	0.10026963E+00
Vector mean speed	0.0282		
Vector Mean Direction	157.0		

### Maximum ten values

Eastings					Northings				
0.500	0.498	0.492	0.485	0.485	0.372	0.368	0.363	0.356	0.353
0.481	0.475	0.471	0.467	0.466	0.353	0.353	0.352	0.350	0.349

### Minimum ten values

Eastings					Northings				
-0.362	-0.363	-0.364	-0.365	-0.368	-0.422	-0.436	-0.436	-0.444	-0.449
-0.369	-0.369	-0.372	-0.383	-0.395	-0.457	-0.459	-0.461	-0.469	-0.473

### Maximum speeds

0.569	0.555	0.550	0.549	0.549	0.549	0.541	0.541	0.541	0.541
0.537	0.536	0.534	0.531	0.531	0.530	0.529	0.528	0.528	0.527
0.527	0.526	0.525	0.523	0.522	0.522	0.521	0.520	0.519	0.519
0.519	0.518	0.518	0.518	0.518	0.517	0.517	0.517	0.517	0.516
0.516	0.515	0.515	0.513	0.513	0.513	0.512	0.512	0.511	0.510
0.509	0.508	0.507	0.507	0.507	0.507	0.507	0.506	0.506	0.506
0.503	0.503	0.500	0.499	0.499	0.499	0.498	0.497	0.497	0.497
0.497	0.497	0.496	0.496	0.496	0.496	0.496	0.495	0.494	0.493
0.493	0.493	0.492	0.491	0.491	0.490	0.490	0.490	0.489	0.489
0.489	0.489	0.489	0.489	0.488	0.487	0.487	0.486	0.486	0.486

## Variance ellipse statistics

Maximum variance	0.5914E-01	Direction	-47.2
Minimum variance	0.1781E-01	Direction	42.8
Total variance	0.7695E-01	Ratio of variances	0.3011E+00
Average direction. maxdir -PI/2 to maxdir +PI/2		10.9	
Average direction. maxdir +PI/2 to maxdir -PI/2		184.3	

# **Filtered Statistics for dp0010.00604s4f**

Doppler bin number 4

	Mean	Variance	Standard deviation
Eastings	0.0128	0.73303108E-03	0.27074547E-01
Northings	-0.0259	0.13260836E-02	0.36415432E-01
Speed	0.0475	0.62389689E-03	0.24977928E-01
Vector mean speed	0.0289		
Vector Mean Direction	153.7		

## Maximum ten values

Eastings					Northings				
0.063	0.063	0.062	0.062	0.061	0.085	0.079	0.070	0.053	0.051
0.060	0.058	0.056	0.052	0.052	0.047	0.045	0.040	0.034	0.033

## Minimum ten values

Eastings					Northings				
-0.037	-0.038	-0.038	-0.040	-0.040	-0.075	-0.075	-0.076	-0.078	-0.081
-0.043	-0.044	-0.045	-0.045	-0.046	-0.084	-0.086	-0.093	-0.095	-0.099

## Maximum speeds

0.111	0.109	0.101	0.100	0.099	0.096	0.090	0.088	0.088	0.088
0.087	0.087	0.086	0.084	0.084	0.083	0.081	0.080	0.079	0.078
0.078	0.077	0.076	0.075	0.073	0.073	0.071	0.070	0.069	0.068
0.068	0.068	0.067	0.067	0.066	0.066	0.066	0.066	0.065	0.063
0.062	0.061	0.060	0.059	0.059	0.059	0.058	0.058	0.057	0.056
0.055	0.055	0.055	0.054	0.054	0.054	0.054	0.053	0.052	0.051
0.050	0.050	0.047	0.046	0.046	0.045	0.044	0.044	0.044	0.044
0.043	0.042	0.042	0.042	0.041	0.041	0.040	0.040	0.040	0.039
0.039	0.038	0.038	0.038	0.037	0.037	0.037	0.036	0.036	0.036
0.035	0.033	0.033	0.032	0.032	0.032	0.032	0.030	0.030	0.030

## Variance ellipse statistics

Maximum variance	0.1784E-02	Direction	-33.4
Minimum variance	0.2753E-03	Direction	56.6
Total variance	0.2059E-02	Ratio of variances	0.1544E+00
Average direction. maxdir -PI/2 to maxdir +PI/2	3.4		
Average direction. maxdir +PI/2 to maxdir -PI/2	187.1		